

The cover features a complex collage. At the top left is the Carleton University crest. The background is a mix of images: two students working on a laptop, a green circuit board, a hand holding a pen, a city skyline at night, and a computer lab with students at their desks. The title 'CARLETON' is in large white serif font, and 'UNIVERSITY MAGAZINE' is in smaller black sans-serif font below it. The date 'Fall 1999' is in the top right. A list of partner names is on the right side, and the main headline 'Partners in Progress' is at the bottom left, followed by the tagline 'Universities and industry forge alliances for the future'.

CARLETON

UNIVERSITY MAGAZINE

Fall 1999

Nortel

Cognos

Mite

Entrust

IDS Uniphase

The Object People

Telelogic

Corel

Dell Canada

MacDonald Dettweiler

Paradigm Research

Bell Helicopter

General Motors Canada

Newbridge Networks

Partners in Progress

Universities and industry forge alliances for the future



Carleton
UNIVERSITY

Alumni, 'Espresso Yourself'

Online!

at the

Carleton

Café

Our Virtual Specials:

The Carleton Café is open for business, serving up topical discussion threads, volunteer opportunities, and many more ways to get involved.

There's no better place to join up with old friends, network to make new ones, or learn about the latest Carleton projects and campaigns.

Come online and see what the Carleton alumni community has to offer. We're open 24 hours a day. CU there!

www.carleton.ca/alumni

Carleton University
Alumni
Association Online

CONTENTS

UPFRONT

8 Migrating scholars

How real is the threat of a national brain drain to the Canadian economy? Writer Marlene Orton, BJ/75, examines the flight patterns of university scholars to find out why they're heading south and whether they'll return to Canada.



COVER STORY

5 Partners in progress

Universities and industry are working strategically to forge alliances as they head into the next century of the technology revolution.

ALUMNI PROFILES

14 The man with the golden thumb

Antoine Paquin, BEng/87, is to emerging high-tech firms what Miracle-Gro is to your rosebush. Everything Paquin touches turns to silicon gold.

15 Can you dig it?

Mark Jodoin, BJ/79, a partner in one of Canada's most successful web marketing firms, is grounded in the past with a passion for retro.



FEATURES

16 Technological innovations

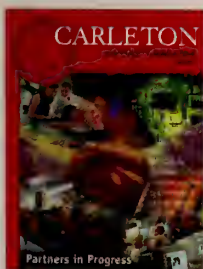
Here are some snapshots of just a few of the projects and the people behind them at Carleton that are blazing a trail into the next century.

17 The young and the restless

Tom Smy, at age 36, smashes the traditional mold of a university engineering professor. David Coll, 66, retired last year but he still keeps on working. Meet these two dynamic members of Carleton's engineering faculty.

DEPARTMENTS

Viewpoints	3
Letters	4
On Campus	10
Capital Report\$	20
Alumni	23
Class Acts	27
Check It Out	35
2000 Thoughts	36



On the cover

Design by Catapult
Catherine Pirie,
BID/91

Bookmark this

www.magazine.carleton.ca

We're pleased to launch the all new *Carleton University Magazine Online*, a comprehensive online news source for alumni and friends of Carleton designed by Carleton alumnus Darin Cosgrove of NewPublishing.com (see story on page 23)

Plug into our Web site to:

- receive regular campus news updates
- get a sneak preview of upcoming university events
- get exclusive coverage of fascinating alumni in the news
- share your personal news for Class Acts
- conduct key-word searches of information
- check out past issues
- find out what's happening in the branches and chapters
- write a letter to the editor
- subscribe to our online edition

A tribute to our faculty

High-tech connections translate into substantial support for Carleton



People invest where they have confidence. And, at Carleton, we view private donations as an endorsement of the contributions we are making to the next generation. Put that way, then, Carleton's recent fundraising success in the ATOP campaign is a ringing endorsement from our high-tech corporate partners.

Carleton attracted more funds than any other Ontario university under the ATOP banner—a challenge grant from the province to help us double enrolments in IT-related programs. Under the leadership of John ApSimon,

vice-president, research and external, we sailed right past the grant maximum of \$11.6 million and rang up more than \$24 million in support.

Although John ApSimon and his faculty colleagues in computer science and engineering may be too modest to admit, this remarkable success was only possible because of the relationships they have been developing over many years with the high-tech community.

There is barely a high-tech company in the country that has not had a collaboration with a Carleton faculty member at some point in its evolution. In fact, dozens of the most familiar companies were started by alumni, often before they even graduated. Faculty have been involved in hundreds of start-ups and often stay in touch by supplying students and graduates for the growing enterprise.

These faculty who have worked on the front lines with students and corporate partners over the years, were able to witness the confidence of the high-tech community translated into substantial support

through cash, equipment and software donations, during the ATOP campaign.

Congratulations to John ApSimon and his colleagues. Thanks to them, our students will have new facilities, the latest software and equipment and an enriched scholarship program. Both students and employers will benefit from the 250 additional co-op placements that will be added this year.

This phenomenal influx of private sector contributions under ATOP has helped Carleton to exceed its \$50-million Capital Campaign target. The campaign total is now over \$70 million and fundraising efforts are still going strong in order to adequately fund the remaining priority projects.

In the meantime, the hard work of our faculty will continue to pay dividends for our students and our campus for many years to come.



Susan Doyle
Assistant Vice-President,
Development and Alumni

Editor's welcome

At first, the idea of publishing an issue dedicated to "advanced technology" caused me to wince. Let's be honest. To the uninitiated, it can be highly esoteric. I imagined hours of interviews, my eyes glazed over, as I scribbled down page after page of techno-babble.

I couldn't have been more wrong. This industry is booming and it's been an eye-opening experience meeting these bright, motivated grads—this new generation of workers who are "imagineering" the very future of the country. For them, anything is possible.

A few years ago, Carleton decided to focus on enhancing its high technology studies to bring the curriculum in line with the development of the industry in the Ottawa area. Through recent academic appointments, innovative programs and industry partnerships, the university has solidified

its position as the premier information-technology-based institution in the region.

Carleton offers the most comprehensive set of IT programs in the country. For example, the traditional physics degree has been changed to applied physics and engineering physics. Last fall, Carleton introduced a four-year bachelor of engineering in communications engineering, the first degree of its kind in North America. We've attracted world-class faculty and researchers and we've increased our co-op programs.

As a result, students are taking notice. Enrolment in engineering and high-technology grew this year by about 20 percent in undergraduate fields such as computer engineering and computer sciences and by almost 50 percent in related graduate programs.

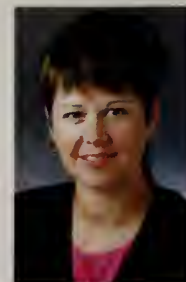
The high technology industry invested upwards of \$37 million in Carleton University—including matching money from

the Ontario government under the province's Access to Opportunities Program. The outcome of this funding blitz will be fascinating to track.

New research labs, state-of-the-art software and equipment, faculty hirings, campus construction, a flourishing scholarship program, enhanced co-op opportunities, partnerships with industry and regional institutions—these are just some of the good news stories you'll read about in this and subsequent issues of *Carleton University Magazine*.

This is something to get excited about.

Nancy Klein



Co-op @ Carleton

Integrating study with practice is a powerful formula for creating the professionals of tomorrow. Vigorous academic study combined with applied, leading edge skills give Carleton students the **Co-op Advantage.**



Many Alumni have already discovered the value of investing in future alumni.

"Chris has consistently produced work of excellent quality and has made a significant contribution to Cadabra's software." Farhana Sheikh, B.Eng. (Computer Systems) '93, Cadabra Design Libraries

"Andy took a lead role in the development of our 'new and improved' Web site which includes quite a bit of live content." Wayne Beaton, B.C.S. '91, The Object People

If you or your employer have opportunities or job leads for our students, let us know and we'll do the rest.

Co-op Programs

- aerospace engineering • applied physics
- architectural studies
- biochemistry • biology • business (B.Com.)
- chemistry • civil engineering
- communications engineering • computer science
- computer systems engineering
- earth sciences • electrical engineering
- engineering physics • environmental engineering
- industrial design • mathematics and statistics
- mechanical engineering • software engineering

Co-op Office

Suite 1400 Carleton Technology and Training Centre
Carleton University
1125 Colonel By Dr.
Ottawa, ON K1S 5B6
Tel: (613) 520-4331 Fax (613) 520-2345
co-op@carleton.ca

www.carleton.ca



www.magazine.carleton.ca

Editorial Advisory Committee

Giuliano Tolusso, BJ/83 (chair)

Erin Gaffney, BJ/98

Allister Hain

Richard Martin, BAHons/70, BJ/83

Christine Wong, BJ/94

Alex Wooley, BA/89

Contributing Writers

Nick Greenfield, BJ/99

Marlene Orton, BJ/75

Assistant Vice-President

Development and Alumni

Susan Doyle, MA/75

Editor/Design

Nancy Lewis, BA/91

Letters to the editor are welcome. The editor reserves the right to edit or refuse any submission. Views expressed or implied are those of the individual contributors or sources quoted and do not necessarily reflect university policy.

Carleton University Magazine is a member of the Canadian Council for the Advancement of Education (CCAEE).

Advertisers call Nancy Lewis at (613) 520-3636 or email nancy_lewis@carleton.ca

Magazine Mission Statement

Carleton University Magazine is published by the university regularly throughout the year for the university's alumni and friends. The magazine is the university's primary vehicle for providing information on activities and events within our community; on the accomplishments of alumni, faculty and students; and on significant issues and developments within the university community and the alumni association. The magazine's principal aims are: to inform its audience in an accurate and timely fashion; to stimulate interest in the university and the alumni association; to encourage the university's alumni and friends to understand and support Carleton's mission; to foster pride in the institution; to facilitate awareness and involvement on the part of alumni around the world; and to create and maintain good will. The magazine is distributed to 62,000 alumni world-wide.

Development and Alumni Services

Carleton University
Robertson Hall, Room 510
1125 Colonel By Drive
Ottawa, Ontario K1S 5B6 Canada
Telephone: (613) 520-3636
Fax: (613) 520-3587
Email: devalum@carleton.ca
Web site: www.carleton.ca/alumni

Publication Mail Agreement No. 1495186

ISSN 0226-5389



Printed on recycled paper

How 'bout funding the arts?

If Alanis Morissette would offer a benefit concert for Carleton University (*Letters, Spring, 1999*), I believe the money raised should be re-invested into the arts programs or be used to rejuvenate language courses that had previously been cancelled.

Everyone seems to be talking about the Raven football team's 53-year tradition at Carleton, but what about that centuries old tradition of universities being institutions of liberal education?

When I learned of Carleton's establishment of a humanities school and programs, I was excited about the prospects of future development in more specialized cultural programs such as Asian studies or classical Greek studies. But clearly the cancellation of language courses has indeed shattered any such prospects. Without a well developed and rounded curriculum of academic programs, I believe it would be very difficult for Carleton to expand its reputation and be on par with schools such as the University of Toronto or UBC in the future.

In spite of the "Carleton Pride" rhetoric which we have been fed all these years, I believe much substantial effort needs to be taken if Carleton is serious about becoming a better university.

Alvin Chung
BAHons/96 (*Political Science*)
(by email)

Scholars heading south

I am a graduate of your university and thus receive your seasonal university magazine. It is not often that I get the chance to read your publication, as it is sent to my home in Canada. Although it is not my first choice (which is why I continue to maintain a residence in Canada), I am primarily residing in the United States. As is often the case, my spouse is an American and his business is in America. I am not working.

I am writing to express my thoughts about your article on Chancellor's scholars. It is already a serious concern that Canadian taxpayers' dollars are wasted on educating Canadians who upon graduation, head promptly south for more lucrative opportunities. But it astounds me that you so proudly reiter-

ate the condition in your profile on students who have not only been educated on Canadian tax dollars, but who have also received Canadian scholarships. Two of the seven graduates that you profiled are currently employed in the States. If this random selection is representative, then just under 30 percent of taxpayers' and scholarship funders' dollars end up benefitting our very robust, southern neighbour and not Canada.

In response to: "Do dollars attract scholars?" I would have to say yes. The real question is: "Do dollars attract scholars who then move to the United States?"

Esther M. Baird, BA/77,
Los Angeles, California

Still typing after all these years

My daughter, Diane Morgan, BA/66, gave me the spring issue of the magazine and marked for my attention the article, "Forecasting the Future." I noted the arresting final line, "When have you ever seen a typewriter in the last month? Not likely."

In the early sixties, I lectured at Carleton in the department of religion and for four years those lectures were prepared on a typewriter.

For the past 22 years since retirement, I have been the weekly faith page columnist for the *Kitchener-Waterloo Record* and, this June, have just finished column number 1,183 all of which were written on my trusty Smith-Corona Executive Correct typewriter!

When did I last see a typewriter? I am looking at one now in good repair as I type this to you. Of course, I am 85 and computers are a no no to me.

Frank Morgan
Kitchener, Ontario

A walk down memory lane

The photograph of the 1949 convocation of Carleton College brings back some lively memories of many half-century degree ceremonies.

Two degree-granting occasions held at Glebe Collegiate were graced by two successive Governors-General (Lord Athlone and Lord Alexander); Dr. Tory presided at the first, Dr. MacOdrum at the second (he had to retire briefly from the platform to retrieve his notes.) For the first degrees (six BJ, BPA) candidates appeared in gowns,

one officer in naval uniform, but without benefit of hoods.

In a 1948 ceremony at First Avenue, 16 candidates received BJ degrees (gowns only, with a minimum of ritual.) But by 1949, a committee on symbols and ceremony had been at work and there emerged an order of proceedings and proper hoods manufactured according to the intercollegiate code by Cotrell & Leonard, of Albany, N.Y. The committee's recommendation had been for gowns (and hoods) of forest green; when the matter came before the faculty board, black won out on the casting vote of the president. So 100 hoods were cleared through customs by Betty Buckley; 100 Carleton labels were stitched in by needlewomen convened by Mrs. E.W. Stedman; and St. James United Church arranged for convocation (Myron McTavish serving as organist).

There was as yet no dean, so that candidates for the bachelor of science were presented by professor Lorne Richardson, for journalism by professor Wilfrid Eggleston, for bachelor of arts by myself.

This was the forerunner of more than 100 later degree ceremonies. Professor Herbert Nesbitt took over as marshal of convocation (I think the following year) and discharged this honourable office for 49 years. Before the university mace existed, his staff of authority was of sturdy wood hand-turned by himself. I had the honour to receive the degree of doctor of law, *honoris causa*, in May, 1964, on a day when it had snowed.

James A. Gibson
President Emeritus, Brock University.

Carleton University Magazine welcomes the submission of letters by its readers. Please write to us at the address below or email nancy_lewis@carleton.ca

Development and Alumni Services
Room 510, Robertson Hall,
Carleton University,
1125 Colonel By Drive
Ottawa, Ontario K1S 5B6
Fax: (613) 520-3587



Partners *in* progress

Now, more than ever before, partnerships with industry are key to helping universities shape their role in Canada's emerging knowledge-based economy.

By Nancy Lewis

No contracts have been drafted. No one has been asked to sign on the dotted line. But paper and ink notwithstanding, many industry CEOs and university administrators across the country have agreed to join forces in an alliance that is proving to be highly beneficial to both sides.

While partnerships between industry and academia are nothing new, a climate of consensus and co-operation is heating up in corporate boardrooms and on university campuses. Now, more than ever, both parties are working strategically to establish and forge alliances.

"There's a paradigm shift in the boardroom," says Samy Mahmoud, Carleton's dean of engineering and design. "In the past, it used to be that if you manufactured things fast enough and cheap enough you would succeed. Today it's the brains that drive success. They (industry) need the energy and the brains of experienced as well as fresh university graduates."

Partnerships are becoming most pervasive in Canada's high technology sector. This is largely because of the critical skills shortage. More and more, industry is looking to universities to supply it with a technically trained workforce.

"The scale and the magnitude of cooperation is far more today than it's ever been," says Mahmoud. "It's a lot easier now for the company president to sell to his board of directors major involvement with a university than it has ever been."

The whole climate of partnerships couldn't have

come at a better time for Carleton, says John ApSimon, Carleton's vice-president, research and external. "It has enabled us to establish our strengths in the high technology component of our strategic plan. We were poised to take advantage of this cultural change."

Companies are waking up to the advantages of working closely with academic institutions, says Mahmoud. "Industry realizes it has to start early in forging alliances and in making itself known to students. They have to tap into new ideas and new

blood if they want to recruit the next generation of talented people."

In return for recognition and access to top graduates, industrial partners are investing huge amounts—either in cash, scholarships or through in-kind gifts or services ranging from labs and research projects to products and equipment—in underfunded campuses. In the past year alone, high-technology companies contributed more than \$24 million to Carleton under the provincial Access to Opportunities Program (ATOP).

Nortel Networks' vice chairman and CEO John Roth announced a \$20 million contribution to five Ontario universities this year—a significant investment by industry standards.

What distinguishes corporate partnerships from standard charitable donations?

Susan Doyle, Carleton's assistant vice-president, development and alumni, says today's partnerships represent "an evolution in corporate donations policy where both sides benefit."

Nortel Networks invests \$5.5 million in scholarships

A \$5.5-million investment to establish scholarships for Carleton students enrolled in high-demand advanced technology programs will be announced in October by Nortel Networks' vice-chairman and CEO, John Roth.

The funding will provide approximately 200 named scholarships each year over 10 years to undergraduate and graduate students enrolled in communications engineering, computer systems engineering, electrical engineering, engineering physics, software engineering, computer science and computer mathematics at Carleton University.

The first set of Nortel Networks scholarships was awarded to students entering Carleton this fall.

Each year a select group of five top students will receive the prestigious Nortel Networks Scholarships of Excellence, based on academic excellence, leadership qualities and community involvement. The renewable award is valued at \$20,000 over four years. In addition, up to 200 Nortel Networks Scholarships valued between \$500 and \$3,500 per year will be given on a renewable basis. Another 10 graduate scholarships will be awarded on an annual basis.

"Carleton University is deeply committed to meeting the needs of the knowledge economy," says Carleton president Richard Van Loon, "and with over 5,000 students enrolled in high-tech programs, we now have the second largest high-tech enrolment in Ontario. Nortel Networks' generous investment in student aid is a key element in the continuing growth and development of our teaching and research environment. Their support, and the leadership Mr. Roth has shown in the ATOP process, will help us to expand what is already Canada's most complete platform of IT programs."

The funding is part of a \$20-million investment in Ontario universities by Nortel under the Access to Opportunities Program.

Our atop partners

The university is grateful to the following individuals and corporations for their generous support through the Access to Opportunities Program.

AMS Canada; Atlantis Scientific Inc.; Bell Helicopter; Cadabra; Cadence Design Systems Inc.; Canada; CAE Electronics, Inc.; Canadian Airlines International Ltd.; Canadian Bank Note Company; CanPub Information Technologies Inc.; Centre for Research in Particle Physics; Chrysalis-ITS Inc.; Cognos; Communications Research Centre; Corel; Defence Research Establishment Ottawa; Dell Canada; Gary Duck; Dynamic Digital Design Inc.; Entrust; Espial Group Inc.; General Motors Canada; Hewlett Packard; IEP; Integrated Systems (ISI); InterNetivity; Industry Canada; JDS Fitel Inc.; Lafarge Canada; The Estate of Richard Lewar; Macadamian; MacDonald Dettwiler; Mitel; Mxl Technologies Ltd.; New Paradigm Technologies Inc.; Newbridge Networks; Nidacon Canada Inc.; Nortel Networks; NRC Institute for Aerospace Research; NRC Institute for Information Technologies; NRC Institute for Microstructural Sciences; Object Technology International Inc.; Objectime; OCM Technology Inc.; Optiwave Corporation; Ottawa Regional Cancer Centre; Overburden Drilling Management Limited; Paradigm Research Group; Parametric; Philsar Electronics Inc.; Pika Technologies; Pratt & Whitney; Precise Software Technologies Inc.; ProSys; Public Works Government Services, Year 2000 Directorate; RCMP Informatics; Spruce and Marsha Riordon; Chris Riordon; Herb and Helen Saravanamuttoo; Neil Saravanamuttoo; Colin Saravanamuttoo; Malcolm Saravanamuttoo; Saravanamuttoo Scholarship Donors; Semiconductor Insights; Krishnan Suthanthiran; Telelogic; Telemus Inc.; Telesat Canada; Tetrant Software; Texas Instruments; The Object People; Toronto Dominion Bank (TDit); Tundra Semiconductor Corporation; Unity Software Systems Inc.; David Vice; Vistar; Gabriel Warshaw Scholarship Donors; Webplan; Westport Technologies; Xiphos Technologies; Zim Technologies International.

"A company's investment in projects or programs today signifies a clear opportunity for the company beyond the goodwill factor that used to be sufficient," says Doyle. "Today, companies are ready to invest in partnerships because the benefits—whether for recruiting, directed or collaborative research or product development—will support corporate goals."

Nortel, for example, says it plans to keep in close contact with its scholarship recipients during their years on campus with the eventual hopes of recruiting them for jobs. Joyce Wick, director of scholarships for Nortel, says, "We have a real need for high-tech, engineering type people in our company so certainly we want to do what we can to encourage students to go into these areas. Ultimately we would like to have the potential of hiring these students within our own company. We feel the benefit to us is going to be very significant."

International software firm Cognos Inc. recently donated \$48,000 to Carleton to establish the first named Cognos scholarship awards at the university. It has also increased its offering of student co-op positions as an in-kind gift. "We're very excited about these scholarships and we hope that our Cognos scholars will also come to Cognos for their co-op work terms," says Margaret Dacey, vice-president, human resources.

Dacey says the rationale for the gift is simple. "It's branding in a way. We put ourselves in front of the students. They get to know Cognos at a very early stage. They recognize the name and down the road when they're looking for a job they'll know we're a good company."

For the university, the advantages of partnering with the private sector are plentiful. Faculty able to align themselves with world-class researchers. Students get relevant hands-on experience and access to leading-edge technology.

The logical outcome is that graduates will get good jobs. Since 1996, Nortel has hired more than 260 new graduates and almost 650 students from computer engineering, computer science, electrical engi-

neering, math, commerce and other programs at Carleton.

Even smaller companies without large marketing or recruiting budgets are recognizing the benefits of partnerships. Entrust Technologies in Ottawa, for example, donated \$25,000 cash plus \$196,670 in e-commerce software to establish a laboratory in the computer science school which opens this September. Brian O'Higgins, BEng/79, executive vice-president and chief technology officer and a co-founder

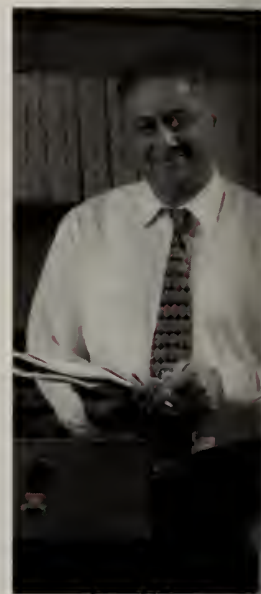
of the company, says it's the first time the company has ever given a charitable donation. The motivating factor, he says, was to establish a connection with potential student recruits and to formalize a research relationship with professors on projects that could eventually lead to product development.

"There's no down side at all," says O'Higgins. "The academic world is always

looking for problems to solve and industry has problems, so connecting them together is a very positive thing."

More and more university professors are realizing the potential for industry-sponsored research. This trend is evident across most faculties on campus, according to Elizabeth White, director of Carleton's technology and research development office. Joint funding of projects with private sector and government and non-governmental agencies has become the norm, she says.

Technology transfer through partnerships can actually generate income for universities through licensing arrangements, royalties and patents from spin-off ventures. Cadabra, an Ottawa electronics design company, recently provided several million dollars in royalties to Carleton.



Samy Mahmoud

"A vibrant research culture has emerged at the university. That sends a good strong message about the research intensity of the university. It's a strong measure of our commitment to partnerships."

—John ApSimon,
vp, research and external

Carleton goes over the top with *atop*

"Industry is increasingly recognizing the potential of university research to form the basis of technological development," says White. "Companies like Entrust are providing us with software that we otherwise could not afford to go out and buy. It allows access to equipment, software and knowledge that gives our students relevant experience."

The statistics speak volumes. According to the latest edition of *Ottawa Facts*, released in June by the Ottawa Economic Development Corp., local technology companies are spending \$2.5 billion a year in Ottawa on researching and developing their products, a "sizzling 40 percent more than a year ago." Last year, Nortel invested more than \$500,000 in R and D projects at Carleton. Overall, external research funding for the university this past year was \$26.5 million compared to \$19.5 million the year before. That's a substantial increase, with more than half coming from private industry.

"A vibrant research culture has emerged at the university," says Carleton's ApSimon. "That sends a good strong message about the research intensity of the university. It's a strong measure of our commitment to partnerships."

There are those who are concerned that the cosy connection between industry and academia could pose problems. Michael Conlon, MA/94, national chair of the Canadian Federation of Students, says he's worried that the high-tech corporate agenda will dominate the university's academic priorities and that other programs which don't attract research money will suffer.

ApSimon believes industry should play a role in helping universities to define their strategic directions in relation to the community. But he cautions, "You have to be careful that universities don't just become an extension of the industrial machine. It's a balancing act. You have to maintain the academic priorities of the institution."

Mahmoud agrees. "We can't just decide courses and material in isolation. Forging close links with industry gives us feedback and is a source for research topics and ideas." He adds, "We have the power and control over what we teach. Ultimately we as educators have the final vote in academic decisions."



Ontario's advanced technology sector invested in excess of \$24 million to Carleton University this past year under the Ontario government's Access to Opportunities Program (ATOP). Find out how Carleton capitalized on this phenomenally successful initiative to raise more than any other university in the province.

What is ATOP?

The Ontario ministry of education and training announced the Access to Opportunities Program in May 1998 in response to industry's need for more high-technology graduates. \$150 million was budgeted over three years to help universities and colleges dramatically increase the number of students enrolling in computer science and high-demand engineering programs. In the 1999 provincial budget, ATOP funding was expanded by \$78 million. The government has pledged to match dollar for dollar the value of cash or in-kind contributions by private industry to participating academic institutions.

Why is ATOP so important to the high-technology industry?

Forecasts indicate there will be four times as many jobs available in the high-technology industry as the number of qualified technical graduates coming out of colleges and universities.

How much has Carleton raised under ATOP?

The total amount of cash and in-kind contributions pledged to the university is in excess of \$24 million. Under the funding formula, \$11.6 million of that is eligible for matching provincial funds, for a total of \$37 million.

Why was Carleton's response to this initiative so successful?

Ottawa institutions responded to the ATOP challenge in a unique consortium approach, unlike any other region of the province. Carleton formed a strategic partnership with the region, the Ottawa-Carleton Research Institute, Ottawa University, Algonquin College and La Cité Collegiale in order to approach local industry for funds. The community has really shown how government, industry and education can work together to address a shared concern.

How will ATOP funding change the face of the university?

On the broadest scale, ATOP activity has helped Carleton expand and develop its high technology focus. It has also helped strengthen the university's existing industrial partnerships and forge new ones. The major ATOP-funded project, announced in March, is the \$6.4 million expansion of the Minto Centre for Advanced Studies in Engineering (CASE) Building. This project will double the size of the Minto Centre by adding three floors of teaching and research space to the existing floors. ATOP funding will also be used to equip new labs in computer science, systems engineering, electronics and mechanical and aerospace engineering elsewhere on campus. Of course, students will be big winners under ATOP. With more than \$6.1 million pledged for new technology-related scholarships, Carleton has substantially increased the number and size of scholarships for deserving students. New state-of-the-art industry-current software, some \$16 million worth, has also been donated. Along with money, software and equipment, the university also received commitments for 250 new co-op placements over the next three years from local high tech companies.

What is the timeline of the ATOP program?

At the request of many other Ontario universities and colleges, the province has extended the deadline for ATOP pledges from April 15 to November 30, 1999. Because of Carleton's success within the original time frame, our campaign will not be formally extended, and we can concentrate our efforts on the next step of our plan.

Where can I find more information about ATOP?

The government Web site for ATOP is <http://www.edu.gov.on.ca/eng/general/postsec/atop/>

Migrating scholars take flight

By Marlene Orton

In early July just after convocation, Pierre Menard packed his suitcases and went off to Austin, Texas, to join one of fastest growing high-technology companies on the continent. For this engineering graduate from Burlington, Ontario, Trilogy Software Inc. is really the only place he wanted to work.

"I was applying for jobs all over North America. I wasn't too concerned about location and was even flirting with the idea of working overseas," says Menard. "I was looking more for the opportunity than anything else. Trilogy was an amazing opportunity."

The story is the same for hundreds, probably thousands of Canadian university graduates looking for lucrative, challenging work in the hottest growing industry in North America. But the spectre of all that Canadian talent migrating south en masse has alarmed some corporate executives and academic leaders. They fear a national brain drain is under way and threatening a dwindling pool of would-be entrepreneurs, managers and innovators who are needed to strengthen the country's economy.

Universities have responded with creative measures individually or in concert with industry and government. These include the ATOP program, announced in 1998 by Queen's Park to further boost enrolment in computer science and engineering programs (see page six).

At Carleton, enrolment has risen dramatically in technology-related programs. Compared to last year, confirmations for the fall are up more than 20 percent, says Susan Gottheil, Carleton's assistant vice-president, enrolment management.

However, the perception of a deepening problem in Canada's high-tech milieu remains.

Besides departing graduates, observers worry about losing gifted, experienced employees with a proven aptitude for leadership. While Canada's stock is continually being replenished by returning workers and

an influx of imported skills, the net effect on the labour force is not yet clear.

"An engineer with five to 10 years experience is in very high demand, more so than fresh graduates," says Samy Mahmoud, dean of engineering at Carleton. Mahmoud's academic background is enhanced by his entrepreneurial ventures and consulting work in the high-tech sector. He has seen some of the industry's brightest stars picked off by American companies, he says.

"With fresh graduates, companies are taking chances on how they will turn out as employees. So when companies look for people who take initiative and have a bit of training behind them, not just a university degree, but they know how to do an industrial project—which is very different from doing student assignments—they look for people who have five to 10 years experience. This group is the prime target."

Just how many graduates or experienced workers are leaving the country seems a matter for debate in the absence of any reliable data.

"The spectre of all that Canadian talent migrating south en masse has alarmed some corporate executives and academic leaders."

A recent survey indicated 80 percent of engineering and computer science graduates were willing to take jobs in the United States. Personnel Systems and National Public Relations garnered about 500 respondents from 30 Canadian universities last November through January. The Personnel-NPR results might represent little more than a snapshot of the situation.

Statistics Canada examined emigration and immigration figures in selected occupations between 1990-1996 and found "the loss of temporary workers to the U.S. is offset by a net annual inflow of 24,500 university trained immigrants." Carleton's engineering faculty, for example, is populated by Canadians of various national ori-

gins, says professor Juan Salinas, who arrived from Mexico to study in Canada many years ago.

Statistics Canada and Human Resources Development Canada are exploring new data sources to "determine if the net loss to the U.S. is disproportionately weighted to the best and brightest," Statistics Canada's study says.

None of this helps to assuage the information technology industry, which has been lobbying Ottawa and the provinces to improve the tax structure and encourage universities to train more students.

Gaylen Duncan, president of the Information Technology Association of Canada (ITAC), calls Statistics Canada's numbers virtually irrelevant. "We're used to polling data that is 24 hours or 48 hours old. Looking at economic data that is three years old is kind of dumb."

Additionally, the numbers are a straight body count, he says. "You need to look at the entrepreneurial side, the skill side, the experience side. Are we losing our brightest and best? The simplest example I can find . . . imagine if Terry Matthews had moved to the United States 20 years ago."

The man who co-founded Mitel Corp. of Kanata, then Newbridge Networks Corp. and umpteen spin-off companies translates into one person according to Statistics Canada, Duncan says.

"We survey our members and we ask about vacancies that are unfilled because you don't have skilled people. We get a number that looks like 30,000. In order of magnitude, it's huge. We ask if you are losing people. The answer is yes, every day, every week, every month . . . mostly to the United States."

Not everyone sees this pattern. Artech Studios, owned by Montreal conglomerate Astral Communications, employs 70 graphic designers and artistic programmers in Ottawa. They produce best-selling computer graphics games such as Star Wars, Wheel of Fortune and Jeopardy for American giants such as Hasbro and Steven Spielberg's Dreamworks empire.

Paul Butler, BA/75, an Artech director and a Carleton grad, hasn't had his staff picked off. In fact he sees Canadians who want to come home. "People have wanted to move back here just to get out of the States. They don't want to bring up their children there."

Artech knows they may be a high-tech anomaly, says Butler. "The kind of stuff we are doing is so different. We are working on new Star Wars products and there is no other company in Canada where you can do this."

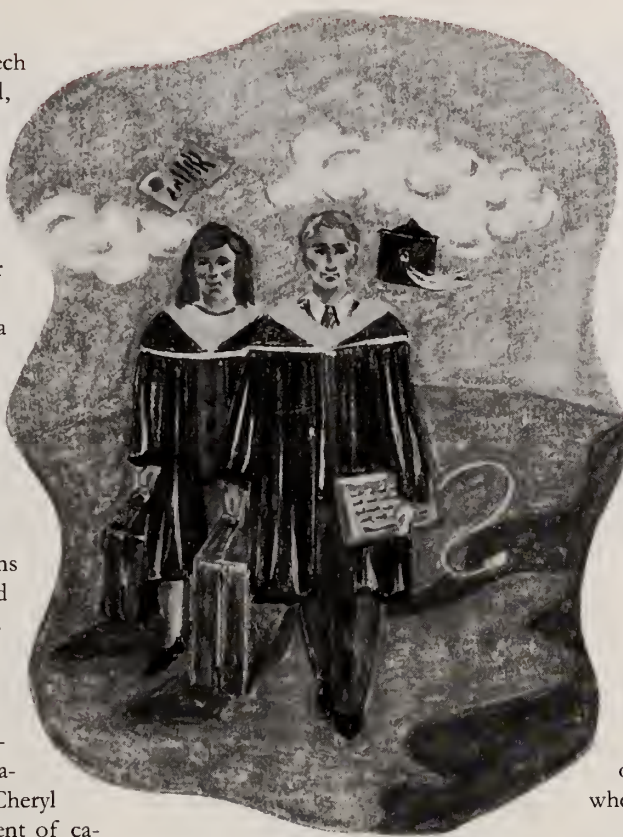
Nevertheless, the Americans are on Canadian campuses and students clearly want them there. At Carleton over the last three years, 98 out of 4,787 recruiting companies were American. The majority of full-time job opportunities in the U.S. are information technology positions, says Cheryl Colmer of Carleton's department of career services.

Last spring, career services—on request from the students—organized an information session with the Consul General of the Embassy of the United States about U.S. visa requirements and foreign student applications.

"It's not that we want to encourage our students to leave," says Colmer. "We want them to stay, but we know that's an option they're looking at."

Carleton, of course, is hardly an isolated example. Menard, the University of Waterloo graduate who's gone to Texas, says about one third of his 70 classmates have left for the U.S. and that companies such as Lucent Technologies, Cisco Systems, Microsoft and now Trilogy were on campus and at career fairs.

Certainly, Canada's high-tech giants are grabbing graduates. Nortel Networks has a workforce of about 12,500 in Ottawa in a competitive atmosphere. It offers health and fitness facilities, tele-commuting programs, stock options and more. Nortel hired about 1,500 university graduates this year, paying a signing bonus of \$2,000 and up. Newbridge, which recently underwent some structural changes, hired about 100 graduates, but also takes on co-op students and summer hires. They too pay a signing bonus and now are stepping up an



outreach program to targeted universities—details of which are still under wraps, says Paul Goyette of corporate communications.

Attractive packages and stock options are of little value with a federal and provincial tax system many people complain gobbles up too much income, says Carleton's Mahmoud. "For young people who are trying to own their own house and pay off debts, it makes a difference. If the difference is \$8,000 to \$10,000 more, he or she can pay their student debts and pay part of the mortgage. These years are tough. People are trying to get ahead and then they get whacked by the tax system."

Industry leaders, such as Newbridge's Matthews and ITAC, are pressing Ottawa and the provinces to ease the tax load—a key barrier identified in a 1999 study for ITAC on the domestic IT skills shortage.

Jeff Bush, a third-year engineering student at Queen's University, has a summer job at Newbridge. He has just finished a two-year stint as vice-president of education with the Engineering Student Societies Council of Ontario and has talked to many southbound graduates.

"Another huge factor is the excitement. This is the time in one's life when you are about as free as you're going to be," says Bush. "If you are going to take

chances and risks, this is the time to do it—coming out of school."

Mahmoud predicts many of these graduates who take flight will eventually return to Canada. "They come back to the managerial jobs with added experience, having worked for American companies and having gained wider international experience and perspective," he says.

Neil Saravanamutto, BAHons/91, principal of TurnCourse Solutions, an Ottawa economics and Internet consulting company, proves the theory that emigrating graduates do come back.

After he left Carleton, he spent a year working in Australia and three years working and studying in England, France and Belgium. "Those were great experiences, but there's no doubt I wanted to come back to Canada, specifically to Ottawa, just because the quality of life here is so outstanding," he says. "There's nowhere that I've seen that is comparable."

Carleton is helping to groom the next generation of high-tech leaders. It offers programs for youth, among them Shad Valley, a summer camp for gifted students now in its sixth year at Carleton under professor Salinas. The goal, he says, is to create a network of scientific entrepreneurs.

Another summer youth program called Virtual Ventures was founded six years ago to get elementary and secondary school students hooked on Web site design, programming and related interests. One group of ex-campers formed Fifth Atelier, the company that designed Virtual Ventures' Web site.

"It's a way to raise interest at a young age," says Carleton engineering student Damien Cole, a camp instructor. "When they get older and it's time to choose a field of study, they remember what they learned here."

Even if these young students fly away, they may well return, like many migrating Canadians before them. And with the continued globalization of the industry, many of these bright lights will lead Canadian operations of international affiliates at home—right where they started in the first place.



Marlene Orton, BJ/75, is a writer based in Casselman, Ontario.

Prominent leaders to unveil College of Public Affairs

A panel of prominent Canadian business and political leaders will debate the challenges of *Leadership in Civic Society* at a public symposium to be held October 2 at Carleton.

The event, to be moderated by CBC National News anchor Peter Mansbridge, will follow a ribbon-cutting ceremony at the Loeb building on campus to mark the official opening of the university's newly-

founded Kroeger College of Public Affairs.

Panelists will include television broadcasting executive Trina McQueen, BJ/64, newly-appointed executive vice-president of CTV, Ed Broadbent, former federal NDP leader and chair of the Panel on Accountability and Governance in the Voluntary Sector and Jocelyne Bourgon, the former clerk of the Privy Council of

Canada who was recently appointed president of the Canadian Centre for Management Development.

Eileen Saunders, director of Kroeger College, says the issue of leadership reflects the mission of the new college which was "designed to create the next generation of leaders in civic society." She also predicts it will be a hot topic for debate in the country as we head into the next century.

"Leadership has become much more complex," she says. "A greater degree of globalization has made leadership more complicated. There's more distrust of institutions and their leaders. The next generation of leadership promises to be the most diverse in terms of race, ethnicity and so on. These are challenges that earlier generations didn't face."

The college of public affairs is named in honour of Carleton's chancellor, Arthur Kroeger, one of Canada's most highly regarded experts in public affairs and a former deputy minister in six federal departments.

The college will be the home of Carleton's new bachelor of public affairs and policy management program. The new four-year honours degree program has attracted top high school students from across the country, many of them student political leaders.

The first class of 70 students will graduate in 2003 with a deep understanding about the formulation of public policy, the objectives of business and labour, the role of the media and lobbyists and the capacity of non-profit organizations.

The ribbon-cutting ceremony starts at 2 p.m. followed by the panel discussion at 3 p.m. in Alumni Theatre. The event, which is being held during the university's annual Homecoming weekend, is open to all members of the public.

University president Richard Van Loon and chancellor Arthur Kroeger will be on hand at the October event which also marks the public launch of the \$1.5 million fundraising campaign for Kroeger College (see story on page 20).



Eileen Saunders

It's the real thing

Campus coke deal to benefit students

Carleton University signed a 10-year agreement in April with soft drink giant Coca-Cola Bottling Ltd. giving the soft-drink manufacturer exclusive rights to sell and distribute its product on campus.

The corporate sponsorship deal, the first of its kind for Carleton, is worth millions of dollars in revenue, the majority of which will benefit Carleton's students.

Despite reservations by student leaders about the "corporatization of campuses," similar deals are benefitting students at university campuses across the country.

"Students should know and care about the deal because with continued cuts to the funding of post-secondary institutions by the province, contracts like these become an essential part of our university experience," says Joe Belfontaine, president of the Carleton University Students' Association (CUSA). "Although I do not agree with excessive corporatization, I do not feel that this deal compromises the integrity of the university."

Under the contract, revenue for the 1999-2000 academic year at Carleton will be based on commissions from sales in vending, food service and retail stores and could lead to a multi-million dollar agreement over the life of the partnership, says Duncan Watt, vice-president, finance and administration.



CUSA signed a letter of agreement with the university administration that 50 percent of funds from the deal will go toward student scholarships and bursaries and the remaining 50 percent will be allocated on an annual basis. This year, 50 percent will go towards scholarships and bursaries, 25 percent will be directed to athletics and another 25 percent towards enhancing computer equipment for students. The precise value of the "rights fee" and percentage of sales were not disclosed.

"I think the process whereby the university came to this decision is a great example of what can be accomplished by working together," says Watt. "Everyone emerges as a winner."

Sponsorship agreements with private sector companies have become commonplace at campuses across Canada. In the past two years, the University of Alberta and the University of Calgary each signed 10-year contracts with Coca-Cola and PepsiCo Inc. respectively.

"I think the concern that people have getting into such deals is that it will affect scholarships and research funding and the curriculum, but that's not going to happen," says Stuart Reid, director of external relations with the University of Calgary.

"We're trying to make it as positive as possible," says Ed Kane, director of university services at Carleton. "It really is a true partnership."

Fall enrolment exceeds targets

A record number of Ontario high school graduates have made Carleton their school of choice this year.

As of August, Carleton was leading the province in Ontario high school confirmations, says Susan Gottheil, Carleton's assistant vice-president, enrolment management.

The unexpected surge in first-year enrolment quickly filled some faculties to capacity. For example, journalism and architecture had to stop accepting applications early in the summer. For the first time in many years students were placed on waiting lists.

First year undergraduate enrolment grew more than 10 percent over last year—more than double the university's targeted projections. That translates into an additional 400 to 500 students on campus this fall.

Engineering and advanced technology programs are among the most popular choices for students with an increase of more than 20 percent in the number of confirmations.

The arts are also making a comeback at Carleton. After several years of below target or flat enrolment, the university's faculty of arts and social sciences is enjoying a renaissance. Enrolment in the three-year bachelor of arts program is up 18 percent and has increased a staggering 31 percent in the honours BA program.

Entrance averages of high school students accepting admission to Carleton have also improved. As a result, the university has increased the number of scholarships to top students entering Carleton by 60 percent compared to last year.

Gottheil says Carleton has managed to capture the attention of this new generation of bright students because of renewed academic programming, a personal approach to recruitment, an aggressive new marketing campaign and "a lot of hard work."

"We've been working very hard to improve our reputation," she says. "The word is out. Carleton is renewed, exciting and innovative."

New building on the horizon



A computer enhanced image of the three-floor expansion to the Minto CASE building. Construction of the addition is being commissioned to Ottawa's Doran Contractors Ltd. It is expected that construction will be completed by September, 2000.

Carleton built the Minto Centre for Advanced Studies in Engineering (CASE) building in 1992 on the premise of, "if you build it they will come."

But with swelling enrolment in the university's information technology programs, that premise has quickly turned into, "we're building it because they're coming."

The board of governors last spring approved the \$6.4-million, three-floor expansion to the engineering facility to make room for an increased enrolment in engineering and computer science programs.

The expansion will provide three additional floors of teaching and research space. The Minto CASE building houses the departments of systems and compu-

ter engineering, electronics, and mechanical and aerospace engineering. It is also home to the only integrated microchip fabrication facility in Canada available to undergraduate students.

Funding for the expansion will come from both the provincial government and the university's research partners in the private sector through the Access to Opportunities Program.

Matching grants from the province will help universities and colleges cover the start-up costs of expanded high-tech programs and will go towards infrastructure, building expansion, renovation or alterations, purchase of equipment, furniture and faculty and staff costs.

Charting a course for human rights

In recognition of the increased awareness of domestic and global human rights issues, Carleton University will introduce a new combined bachelor of arts honours degree in human rights this fall.

Jared Keil, program co-ordinator and associate professor in Carleton's department of sociology and anthropology, says, "The idea of human rights is extremely contemporary and engaging."

The program is the culmination of almost two years of planning by a board composed of faculty members from the four sponsoring departments—law, philosophy, political science and sociology/anthropology—and external sources.

The program will provide students with interdisciplinary expertise in four areas of human rights: human rights law, contexts of inequality, ethical and theoretical issues and global citizenship. In addition to the core courses, the combined program will require a minimum of seven credits, with at least one credit at the fourth-year level, from the human rights options of the four sponsoring departments.

Keil is confident that the increased awareness of human rights issues by both society and students will make the combined program a success.

"MIT of the North" becomes a reality with \$5.3 million investment

A \$5.3-million investment announced in June by the Canada Foundation for Innovation (CFI) will open the doors for a National Capital Institute of Technology (NCIT) in Ottawa.

The high tech institute—dubbed the MIT of the North—is expected to further enhance the Ottawa region's strong position as a centre for cutting-edge research and development in high technology by attracting top-notch researchers, high-tech workers and industries to the national capital.

Using the teaching staff, researchers and facilities of Carleton University and the University of Ottawa, the National Research Council (NRC) and the Centre for Research and Communication (CRC), the institute will begin teaching students in the summer of 2000.

When it is fully operational the institute is expected to teach 800 people in specialized short-term certificate programs and 160 in masters and doctoral

programs annually. Degrees granted will be issued through the two universities. Students will be taught in a new space being prepared for the institute's main office at CRC using CFI funds. Funds will also be used to purchase new laboratory instruments and computer equipment that will be used to upgrade associated facilities at NRC and at both universities.

Carleton's dean of engineering and design, Samy Mahmoud, spearheaded the proposal to establish a National Capital Institute of Technology while on sabbatical at Nortel in 1997-1998. Led by Carleton, the University of Ottawa and partners from the high tech community, the regional municipality and major government labs, the NCIT proposal was coordinated by the Ottawa Centre for Research and Innovation management board.

"We're extremely delighted because it really gives us a strong base for the next five years of research," says Mahmoud.

Tuition hikes among lowest in the province

The Carleton University board of governors last spring approved a 10.5 percent average increase in tuition fees for 1999-2000. The news coincided with the board's announced \$146.6-million operating budget for 1999-2000.

Tuition will increase by 10.5 percent—\$3,420 to \$3,780—for full-time undergraduate students in a bachelor of arts program and 11.9 per cent—\$3,990 to \$4,465—for students enrolled in a bachelor of engineering program. Tuition for graduate programs will increase by an average of five percent.

Two years ago the province established guidelines for tuition fee increases of 20 percent over two years. Last year, Carleton raised fees by 8.8 percent on average. This year's increase of 10.5 percent brings the two-year total to 19.3 percent, among the lowest in the province.

NPSIA to launch on-line journal

The Norman Paterson School of International Affairs will launch a new on-line journal for students in January, 2000.

Entitled *e-merge: A Student Journal of International Affairs*, the semi-annual publication hopes to stimulate student dialogue on international relations and Canada's evolving role in the world. *E-merge* will take a thematic approach to each issue, presenting academic articles and allowing for an open discussion of current foreign affairs issues.

The journal and submissions will be monitored by a student committee, an external editorial board and a NPSIA faculty member.

It is hoped that NPSIA's high calibre of students and its Ottawa setting will allow the journal to fill the current void in Canadian foreign policy literature while fostering constructive debate in a new medium.

A flower by any other name ...

A rare red and black hybrid of a tropical hibiscus plant being grown in Carleton's greenhouses could someday become known as Carleton's official alumni flower.

The greenhouse is attempting to raise the \$1,500 it needs to secure the rights to officially register the flower as the Carleton Alumni Hibiscus.

The hibiscus is rare not only for its lush deep red petals and black centre, but also for its rapid growth and size. The semi-double flower can be sold five to six months after being planted as a seed and can attain mature heights of up to 15 feet. This variety should live to be at least 10 years old, though with proper care the hibiscus has been known to live up to 50 years.

Because of the time investment such flowers require, the plant breeders' rights act allows the developers of new flower varieties to recover their research and development costs by giving them control over the reproduction and sale of a new variety. Like a copyright, it protects the unique qualities of the variety and generally takes the form of a royalty being collected at the time the seed is sold.

The greenhouse hopes name recognition of the flower will boost interest in a bursary fund established last spring for a senior biology student. Nearly \$3,000 has already been raised for the Hibiscus Millennium Bursary through donations from visitors to the university's greenhouse.



World-renowned software expert joins faculty of engineering

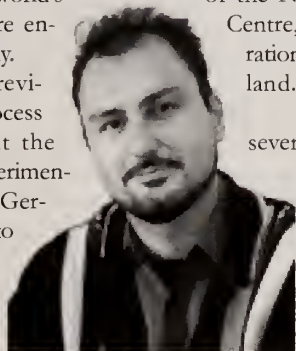
Carleton's department of systems and computer engineering welcomed one of the world's foremost experts in software engineering to its faculty in July.

Lionel Briand, who previously led the quality and process engineering department at the Fraunhofer Institute for Experimental Software Engineering in Germany, says the opportunity to join the department at Carleton was a perfect fit.

"I was looking for an academic position in Canada, he says. "The systems and computer engineering department at Carleton was a very good opportunity. It is a very good engineering school and a very dynamic department with tight links to industry."

Briand, who was educated in France, previously taught classes for software professionals at the Centre de Recherche Informatique de Montreal and has worked

as a research assistant for the NASA Software Engineering Laboratory, a consortium of the NASA Goddard Space Flight Centre, Computer Sciences Corporation and the University of Maryland.



Lionel Briand

Briand is just one of several superb professors hired in the faculty of engineering and design over the past year. Other new academic appointments include Babak Esfandiari, Victor Aitken, Delphine Rossille, Halim Yanikomeroglu, Amir Banihashemi and Ian Marsland.

Hiring internationally-recognized faculty serves to heighten the profile of the department and helps Carleton further entrench its position as the premier information technology-based institution in the region, says Rafik Gouburan, chair of the department of systems and computer engineering.



Stephen Wilson

Religion prof to head college of the humanities

Professor of religion Stephen Wilson has been named director of Carleton's college of the humanities. Wilson replaces founding director Peter Emberley who resigned from the post last spring.

Wilson returns from a six-month visiting fellowship at Oxford University to take up the appointment and will continue to do some teaching in the department of religion where he specializes in Christianity, Judaism and Graeco-Roman religions in Late Antiquity.

Taking over from Emberley, who launched the college in 1996, is "somewhat of a daunting task," Wilson says. "He did some outstanding things with the college to get it started."

While the main elements of the original vision of the college—an interdisciplinary core curriculum in the humanities—will not change, the program naturally will begin to evolve, says Wilson. "We're moving the program into a new era."

Priorities for the college this year include recruitment and fundraising. Efforts will be made to continue to attract top scholars to the unique liberal arts program. A total of 66 students, with an average entrance grade of 85 percent, have confirmed their enrolment this fall.

Born and educated in England, Wilson, 57, earned a BA and a PhD at the University of Durham. He joined Carleton in 1971 as an assistant professor in the department of religion. His most recent book was *Related Strangers: Jewish-Christian Relations 70-170 CE*.

Historian earns high honour

Naomi Griffiths, a recognized authority on the history of the Acadian people of Atlantic Canada, has been named an officer of the Order of Canada.

A professor emeritus and adjunct research professor at Carleton, Griffiths has published a number of scholarly works on Acadian history, the role of women in history and the National Council of Women.



She held the position of dean of the faculty of arts at Carleton from 1979 to 1987, played a key role in the incorporation of women's studies into the doctoral history program and is a former member of the board of governors.

Governor General of Canada Romeo LeBlanc announced the appointment to the Order of Canada on July 7, 1999.

Psychyl earns prestigious 3M award

Psychology professor Timothy Psychyl, a pioneer in the introduction of computer and communications technologies into the teaching curriculum, has been named a 1999 3M Teaching Fellow. Psychyl's 3M award follows closely on the heels of his 1998 Ontario Confederation of Faculty Association teaching award.

This brings to five the number of Carleton professors named as 3M Fellows. Past Carleton winners include professors Aviva Freedman, Alan Gillmor, Brian Little, and Don Westwood.

3M Canada, in collaboration with the Society for Teaching and Learning in Higher Education, created the 3M Awards in 1986. Up to 10 fellowships are awarded each year.

The man with the golden thumb

Antoine Paquin is to emerging high-tech firms what Miracle-Gro is to your rosebush.

In the ten years since he graduated from Carleton's computer systems engineering department, Paquin has developed an incredible track record of taking budding companies in the high-tech field and making them over into flourishing market leaders, very quickly.

By Alexander Wooley

Paquin, BEng/89, shot to prominence in 1997 in both high-tech and business circles, when he sold a small start-up company he had taken over just two years previously for more than US\$90 million to Cisco Systems Inc, the global network provider. A millionaire at the age of 30, he headed the Canadian business development group for Cisco.

Still, Paquin seems more prepared to take credit for an uncanny strategic sense and drive than to discuss the trappings of wealth. "I'm a businessman with deep technical roots. At the end of the day you create an organization to create wealth. So the final result relates to money, but you can't pursue money for its own sake. My passion is building an organization that can win or dominate market segments and the only way to do that is with emerging products."

Everything Paquin touches turns to silicon gold. He currently is president and CEO of Philsar Electronics Inc., a rising star making radio signal processors for so-called Personal Wireless Connectivity." Nepean-based Philsar has nearly 50 employees building radio systems on a chip for everything from cell phones to remote keyless entry systems for your car, pagers and body-worn "palm pilots." Philsar supplies big manufacturers with wireless, multi-functional, next-generation technology able to handle two-way data, audio or text signals. "Past radio systems had a lot of components—we collapse the full functions of radio onto a single slice of silicon," says Paquin.

Born in Montreal and raised in France and North Africa, Paquin came to Carleton after a brief stint at military college because

"it's a good university and it's close to major high-tech companies."

As celebrated as his meteoric rise is Paquin's ability to recognise promise in others. To date he's helped five young Ottawa-area IT firms make a go of it. He identifies a sound product and its potential market then invests his time and venture capital into the company in exchange



Antoine Paquin

for shares. "I help companies define their opportunity and inject cash. Then I roll up my sleeves and provide hands-on knowledge," says Paquin. "The idea is getting good ideas to market, getting a new company on its feet." Not surprisingly, this role as "angel investor" makes Paquin a popular man.

Only 1 in 20 of the ideas he hears about will actually pay off. But a shortage of good ideas is not what plagues Canadian universities, according to Paquin. He laments that so much brilliant research coming out of Canadian universities never sees the light of day. "What we need are tight links between venture capitalists, universities and start-up companies, which is what happened in the development of Silicon Valley," he says. "Today, there are a lot of multi-millionaire professors at Stanford University because of those close relationships that were developed in the early days."

Impressed with the faculty at Carleton while he was a student, Paquin has backed up his words with deeds. Philsar maintains close research and business ties with a number of Carleton faculty members. Electronics department chair Jim Wight is on sabbatical with Philsar at present, while other faculty are also shareholders in the company. Former Carleton professors Martin Snelgrove and Tom Riley serve or have served as Philsar's chief scientist and senior radio design engineer respectively.

Paquin agrees with the popular perception that there's a lot of money to be made in IT. But he says that doesn't mean the job is for everyone. "That impression is right in some ways, but if you don't feel passion for technology, then you shouldn't get into this business. What brings people like Bill Gates to high-tech is a fundamental passion for technology and problem-solving."



Alexander Wooley, BA/89, is a writer based in Toronto.

Can you digIT?

Mark Jodoin is forward-thinking when it comes to running DigIT Interactive Inc., one of Canada's most successful web marketing firms, but he's grounded in the past with a passion for retro.

By Nancy Lewis

Armed with his trademark all-in-one digital phone/palm-sized computer/personal organizer, Carleton graduate Mark Jodoin looks every bit the successful high-tech executive.

It's obvious business has been good this year for Jodoin, BJ/79, a managing partner of Ottawa's Web-based marketing firm digIT Interactive Inc. In fact, the company owned by Jodoin and his partners has experienced triple-digit growth each year since it started in 1996. In the last year alone, revenues jumped 300 percent and Jodoin predicts digIT will conduct another \$3 to \$4 million in business this fiscal year.

The Internet industry—e-business, online marketing and Web site development—is gathering speed like a “relentless, monumental tidal wave,” says Jodoin. And clearly, there's business to be done in the wired world.

When the Royal Canadian Mint hired digIT three years ago to implement one of the world's first e-commerce numismatic shopping strategies, the average transaction on its Web site was just \$35. A few months later, the average transaction rose to \$100. Revenue generated from coin sales on the Web site is now in multiple six figures and recently earned the company an award in the “best implementation or innovative use of information technology” category at Ottawa's Commerce '99 trade show.

“We're just seeing the beginning of one of the biggest business shake-ups of modern times,” says Jodoin, digIT's vice-

president of business development. “This is an economic transformation of epic proportions.”

Staying ahead in a business where competition is cut-throat and profits can be mind-boggling is no easy feat. But after more than 12 years experience in high technology marketing, including five years in senior communications and product management positions with Cognos Incorporated, Jodoin has learned the need to strike a balance between his professional career and his personal life.

“I've always liked new things in terms of technology,” he says.

“But it's critical to have a solid foundation in your life. Things rooted in the past seem to help ... they're more predictable.”

When it comes to his work, Jodoin's vision is definitely forward-thinking. But when the day is done, Jodoin steps into the past. He drives south of the city in his classic 1985 Alfa Romeo convertible to a sprawling heritage stone residence that he shares with his wife Claudia. The 1841 home overlooking the Rideau River near Manotick is one of the few original home-steads in the area.

Consciously or not, he tends to surround himself with articles from the past. Anchored at his dock are Miss Pete, a 30-year-old 26-foot Lyman soft-top and Jackie III, a perfectly preserved 37-foot mahogany cruiser circa 1963.

“I live a retro life,” he laughs. “Came of age in the '70s I guess.”

Jodoin's passion for the past has even crept into the workplace. The Wellington Street facility, with its brilliant goldenrod yellow paint, campy orange crushed-velvet sectional sofa, pool table and mood-enhancing ceiling lamps, is reminiscent of a '70s rec room. The quirky decorating scheme was the inspiration of digIT's creative and technical staff of 20-somethings who are also hooked on retro.

“Our theory is that if the staff is comfortable, our clients will be too,” says Jodoin. “The reality is that they're all Austin Powers crazy right now and determined to make this place totally ‘shagadelic.’”

Jodoin's own youth in the '70s was spent partly as a student in Carleton's school of journalism. After graduating in 1979 with a bachelor of journalism and broadcasting experience with TVOntario, he pur-



Mark Jodoin

sued his career in journalism with Global Television in Toronto.

Jodoin ventured into the new media environment with business developments in Canada and the United States for the multimedia firm North Communications and was a principal in DVS Communications, an innovator in the field of educational multimedia content development. He joined up with Ottawa partner Nathan Rudyk to start digIT in 1996.

Jodoin's unique mix of skills is what helps set digIT apart. In a business that's becoming saturated with start-up Web marketing firms, the company has earned a reputation for producing results. With a staff of 25 in offices in Ottawa and Toronto, the company has launched successful digital marketing campaigns for multinational clients including *The Financial Post*, IBM, Newbridge and Industry Canada, and has recently signed a lucrative deal with California-based Bay Networks (since acquired by Nortel).

But to Jodoin, success is not measured solely by business growth. His volunteer work includes developing the online fundraising strategy for the Ottawa Hospital Foundation, as well as working with local high schools.

“If you're lucky enough to be an entrepreneur, you can create opportunities not only for yourself, but for other people,” says Jodoin. “Incredibly, some of our top technical people are only 19 and 20 years old. Helping them learn and start their careers is the most gratifying part of the job.”



Unravelling a mystery

As the calendar inches closer to the millennium, Carleton's centre for research in particle physics (CRPP) has taken a giant step toward discovering how we got here in the first place.

The CRPP announced in June that it had, in conjunction with five other universities, detected the first neutrinos—tiny ghostlike particles that are the fundamental building blocks of all matter—at the Sudbury Neutrino Observatory (SNO).

Despite being the most common particles in the universe, very little is known about the origin of neutrinos. They have been difficult to study because until now they were impossible to detect. It is hoped the detection of these mysterious particles will help to answer questions about the nature of matter and provide insight into the structure of the universe.

Technological innovations

Technology is transforming the way we live. But technology is more than just computer hardware and software. Technological innovations have swept across all faculties on campus. Here are some snapshots of just a few of the projects—and the people behind them at Carleton—that are blazing a trail into the next century.

By Nick Greenfield

Located 2,000 metres underground in a nickel mine in Sudbury, Ontario, the SNO was built with the collaboration of 11 universities and laboratories in Canada, the US and the United Kingdom. Carleton was responsible for the design, construction, installation and op-

eration of the water systems for the detector.

SNO uses 1,000 tonnes of heavy water as a detection medium for neutrinos which register as faint flashes of light as they are scattered in the water at the heart of the detector. Some of these stunning patterns of light are available for viewing on the World Wide Web at www.sno.phy.queensu.ca

Studying in cyberspace

Carleton's first course section to be offered exclusively on the World Wide Web will go online in the winter term of this academic year.

The introductory geology course, *Climate Change: A Geological Perspective*, is being offered through the department of earth sciences. It will be interfaced with the existing ITV broadcast course to allow enrolled students to access their course work and assignments on the Internet.

Access to the course's lecture notes, transcripts and even an audio playback of the lecture will only be a few clicks on the mouse away for students.

Professor Tim Patterson, the course instructor and designer, says the new section is on the cusp of a new educational domain which someday could change the physical structure of the university and even the way students learn. But Patterson is quick to point out that not all students have at-home access to the latest computer equipment and software. Students wishing to enroll in the course require at least a 14.4 modem, a 4.0 Internet browser and Quicktime 3.

Patterson says the design and accessibility of the course have been priorities throughout its inception. In addition to being a separate course section, Patterson views the new section and its Web site, <http://www.carleton.ca/courses/67.242>, as a supplement for all of the students enrolled in the course.

Wired art

In an increasingly wired world, it's no small wonder that the art world too has been caught up in the technological revolution. And if art really does reflect the times, then the next Leonardo da Vinci might be sitting in front of a computer terminal somewhere in the world right now. Who knows, that same person might be one of the featured artists during the Carleton University Art Gallery's 12-month *Point of Access* exhibition.

The show is featured on a network-based terminal which will display interactive art works produced for presentation on the World Wide Web. A new artist will be featured during each month of the show's May 1999 to May 2000 run, bringing greater profile to the emerging medium of Web-generated art.

Gallery director Michael Bell says the medium opens the arts up to a whole new group of interactive artists, who until now had been seeking a creative outlet.

Global affairs online

A 13-person research team from the Norman Paterson School of International Affairs (NPSIA) has created an on-line database which allows Canadian foreign affairs personnel to instantly gain access to a wealth of detailed knowledge on 122 countries around the world. Professor David Carment from NPSIA is the lead investigator.

The Department of Foreign Affairs and International Trade (DFAIT) commissioned NPSIA to develop the on-line password-protected database that contains a comprehensive set of key features of the economic, political, social and cultural environments of countries around the world. The database is designed to be flexible enough to allow users to expand and modify it to suit their own specific needs.

The database will have a variety of applications within DFAIT, other government departments, non-governmental organizations, users in the private sector and Canada's allies. It could help strategic decision-makers to assess risks and identify potential international hotspots. It could also be used as a vehicle to support Canada's military and economic alliances and to disseminate Canadian views internationally. The Web site is found at www.carleton.ca/cifp.

The young...

Tom Smy, at age 36, smashes the traditional mold of a university professor.

"Arrrgh," Tom Smy winces and briefly slumps into a standing fetal position as his shot hits a dead spot in the wall and bounces feebly into the corner. Laughing through gritted teeth, he casually picks up the ball and hits it off the wall again. Smy doesn't like losing. And this is just the warm up.

But Smy is definitely not your average guy on the squash court. In fact, for someone who not only breaks, but smashes the traditional mold of a university engineering professor, he is more than above average both on the court and in the classroom.

Watching him move nimbly around the court, it's easy to see how Smy's determination and attitude got him to where he is today—the only ranked squash player in the city of Ottawa who designs computer simulations of how to make semi-conductors.

Smy, 36, completed his BEng and PhD degrees in integrated circuit devices at the University of Alberta before joining Carleton as a professor of electronics 1991.

He says Carleton's strong ties to industry coupled with the university's state of the art integrated chip fabrication facility—one of only a handful in the country—are what attracted him. In the past eight years, he has been instrumental in establishing a ground-breaking program in engineering physics at Carleton and in 1998 was recognized for his work with one of Carleton's prestigious research achievement awards.

Smy says there aren't too many similarities between his passion for squash and research, though he admits the two tend to feed off each other. "I find squash relaxing because I work quite hard and I need to get away to do something physical," he says. "I do it because I love it and it also gets rid of some of my competitive urges."

These urges have led Smy to find numerous outlets for his seemingly endless supply of energy. There's yoga in the morning, teaching and research during the days. He's a member of Carleton's senate and athletics board and, as if it's plausible that there's any time left, he also does contract work with local and American industries ... oh, and of course there's the weight lift-



Tom Smy

ing and squash six times a week somewhere in there too.

But none of these commitments seem to faze Smy. "I'm quite happy right now at Carleton. My research is going very well. I'm working well with local industry, so, I guess really, things are progressing."

Progressing so well in fact that if life were like a big game of squash, at Smy's pace, match point is always just around the corner.



—Nick Greenfield



David Coll

Photo by Mike Pinder

...and the restless

David Coll, 66, recently retired from Carleton's faculty of engineering but he keeps on working.

Professor emeritus David Coll may have retired from Carleton's faculty of engineering in June, 1998, but he's still working—on the future.

He's working in the same office, in the same lab and on the same projects that have occupied him for the better part of his career.

His eyes light up as he talks about "broad band multimedia networks," for example, systems that will create an interactive classroom on the Internet. It's called "tele-learning." His research grant in the

field makes him a "technology watcher," helping to position researchers to take advantage of developments over the next three years.

In the new world he envisions, students will attend seminars through video conferencing and will even pay a visit to their professor's office via the computer. Tele-learning will take place in real time, as traditional learning does when we physically enter a room and start talking to people. But we won't have to go anywhere physically.

Coll's passion for teaching and learning—for exciting people, as he puts it—means that he didn't spend much time on himself during his first year of "retirement," although he did buy a season ski pass for the first time.

He remains active on the academic requirements committee of the professional engineers of Ontario and he's still busy in the classroom. He'll be teaching two courses this year, a graduate course in the fall term and a fourth-year undergraduate course in the winter. He also supervises the thesis research of part-time graduate students.

A former chair of the department of systems and computer engineering—from 1975 to 1978 and again in 1988/1989—Coll joined the department in 1967, after earning Carleton's very first PhD in engineering the previous year.

As he puts it, he's been "the right guy, in the right place, at the right time" ever since.



—Richard Martin

Grappling with the gender gap

Women have made great strides over the years in traditionally male-dominated fields such as the law and medicine. By comparison, it seems that the gender gap has not narrowed as quickly in technology and engineering professions.

By Giuliano Tolusso

According to the latest census data available (1997), only 12 percent of Canada's 407,000 female university graduates majored in science and technology. Only one woman in five is currently enrolled in science or engineering programs across Ontario. The statistics are equally grim in the workplace. In Ontario, as of last May, there were 63,398 licensed engineers, but only 3,470 (five percent) of them were women. Still, there is evidence the female presence is growing: of the 2,720 engineers currently in the process of being licensed to practice in Ontario, 554 (20 percent) are women. Female enrolment in engineering at Carleton has increased from 15 to 19 percent in the last year alone.

Monique Frize has made it her mission to tilt the gender balance so that more women choose occupations in engineering and technology.

Frize was the first woman to study engineering at the University of Ottawa. She now holds the joint chair for women in science and engineering for the province of Ontario.

The appointment, shared between Carleton and the University of Ottawa, is one of five regional positions sponsored by the Natural Sciences and Engineering Research Council of Canada and major industrial partners including Nortel Networks.

The key to convincing women to consider careers in science and engineering, says Frize, is to target students while they're still in primary school.



Monique Frize

"Recent studies in the province have shown girls consistently get higher grades than boys in math and science. Boys tend to overestimate their abilities in these subjects while it's the op-

posite for girls. By grade three, girls are saying they're not good, by grade eight their confidence and self-esteem are much worse and by high school, many have dropped the subjects altogether."

To turn this trend around, Frize is involved in several initiatives including education sessions with parents and teachers and the rebuilding of the Ottawa chapter of Women in Science and Engineering.

Frize is convinced that one of the main reasons women avoid careers in science and engineering is a lack of role models. Efforts are being made to remedy this problem through a successful project called Pathmakers. Created in 1986 by the Ontario Women's Directorate in partnership with Carleton, the University of Ottawa and Algonquin College, it brings together secondary and post-secondary institutions with business and industry in the Ottawa area.

Some 125 female students in post-secondary science, technology and mathematics programs who are preparing for non-traditional careers have been recruited and trained to act as role models for female students from kindergarten through high school.

One of Pathmakers' leading lights is Pascale Champagne, a PhD student in Carleton's department of civil and environmental engineering. Champagne's research involves the design of passive systems for the treatment of agricultural, industrial and municipal wastes. She has also been a lecturer in the department.

Champagne recently won a national engineering scholarship valued at \$15,000 for her contributions in engineering and in support of women in the field. The Canadian Engineering Memorial Foundation Graduate Scholarship is awarded annually to a woman enrolled in a full-time PhD program in engineering, to recognize the valuable contribution women in engineering make to society through their research, teaching and community involvement.

As a child, Champagne says, she was always interested in science and loved math. "What drew me to engineering was the logical approach used to solve problems," she explains. "In most types of engineering, how you solve a particular problem is always different because the physical, social, economic and environmental factors are never the same. This makes engineering an interesting, dynamic and challenging career. You just never get bored."

Champagne has another year to go before completing her PhD. After that, she says, her love of research and teaching will keep her in the academic world.

Champagne's advice to parents with daughters (she has two girls of her own aged three and five) who might want to become engineers is to encourage an interest in problem solving. "If that was the focus put on engineering in the elementary and secondary schools, it would have much greater appeal to more girls and boys," she says. "The best way to guide our daughters is to expose them to the full aspects of engineering, math and science. I want to make sure engineering is portrayed in a dynamic way."



Pascale Champagne

Giuliano Tolusso, BJ/83, is manager, public affairs for The Canadian Payroll Association in Toronto.



Carleton University

Your school.



Your card.

Carry the Bank of Montreal MasterCard®* that supports your school. And your individual needs.

Now you can carry this specially designed Bank of Montreal MasterCard card that shows your pride *and* makes a financial contribution to your school — at no additional cost to you.

Get exactly what you need in a MasterCard card.

Plus you can select features like the interest rate and annual fee to reflect your individual needs. If you rarely carry a balance, consider a no-fee card with Extended Warranty Insurance^{††}. Or, you might prefer a card with one of the lowest interest rates available on cash advances, and a competitive low interest rate on retail purchases for just \$15 annually.

Do you travel or need a higher credit limit? Consider the value of Gold MasterCard:

- Superior credit limit starting at \$5,000
- Commission-free travellers cheques
- Discount rates on personal loans (1/2% discount on personal loans from Bank of Montreal)[†]
- MasterAssist^{™††}, a package of insurance[†] and travel assistance benefits designed to provide you with the protection you need when you travel, rent a car or make major purchases



Plus get FirstHome® Dollars or choose AIR MILES®* reward miles.

When you're approved for the Low Rate or No Fee MasterCard, you're automatically enrolled in the FirstHome Program. For no extra charge, 5% of your card purchases up to \$500/year will accumulate as **FirstHome Dollars** to help save for a down payment on a first home for you or a family member[‡].



Or, you can choose to replace the FirstHome Program with the **AIR MILES Reward Program** and collect 1 reward mile for every \$20 in card purchases for an additional \$35 annually[‡]. Reward miles are redeemable for flights on four major airlines, tickets to sporting events, the movies and more. If you aren't already an AIR MILES Collector, we'll enrol you.



Answer the following questions to determine which MasterCard card is best for you.

Are you likely to carry a monthly balance or obtain cash advances?	Are you likely to pay your balance in full each month?	Do you require a credit limit higher than \$5,000, or travel more than once a year?
Low Rate MasterCard For the person who frequently obtains cash advances or who usually carries a monthly balance. • A low 8.9% Interest* rate for cash advances • 12.9% Interest* rate for purchases • \$15 annual fee	No Fee MasterCard For the person who usually pays their complete monthly balance. • 18.4% Interest* rate • No annual fee • Extended Warranty Insurance • \$5,000 maximum credit limit	Gold MasterCard For the person who needs more purchasing power and values extensive travel protection at low cost. • 18.4% Interest* rate • \$60 annual fee

Save for a first home!	Or, would you prefer to travel?
FirstHome Dollars You're automatically enrolled to earn 5% of all card purchases toward the down payment on a first home, for no additional charge	Replace your FirstHome Program with AIR MILES reward miles Earn 1 AIR MILES reward mile for every \$20 in card purchases for an additional \$35/year

Do you travel outside the country?
Add optional Out-of-Canada Medical Insurance [†] for an additional \$35 annually (up to age 65)

* The above fees and rates, correct as at June 1, 1998, are subject to change without notice. For current fees and interest rates, refer to your nearest Bank of Montreal branch, call toll free at 1-800-263-2263 or visit our website at <http://www.bmo.com/mastercard>

No card is more widely accepted.

Because it's accepted at more than 14 million locations worldwide, you know you can use your Bank of Montreal MasterCard card to help support your school virtually everywhere. Plus it comes with a wealth of other benefits:

- 23 days payment grace period
- No transaction fees
- Free additional card
- 24-hour toll-free Customer Service
- Lost or stolen card replacement (up to \$1,000 in emergency funds)[‡]
- Instant cash advances at any Bank of Montreal branch or at more than 350,000 automated banking machines worldwide
- Master RoadAssist^{††} — 24-hour roadside service
- GlobalAssist^{††} — 24-hour, toll-free, out-of-country Emergency Assistance Service

Show your support. Apply today.

Complete and return your application right away. Postage is prepaid.

YOUR PRIVACY

Personal information is information that defines you as an individual customer of the Bank and relates specifically to you. In addition to obvious uses of your personal information such as credit references, we ask you for your personal information for the following purposes:

- to maintain and administer your MasterCard account
- to understand your needs
- to determine the suitability of products and services for you
- to determine your eligibility for our products and services
- to provide you with information and offers on our products and services, or those of others, that we believe will be of interest to you
- to share your personal information with the Bank of Montreal Group of Companies[†] so that i) they can provide you with information and offers on their products and services that they believe will be of interest to you and ii) we or they can fulfill any information requests you may make about products or services
- to comply with the law
- to protect your interests and ours

We ask for your SIN for:

- matching to credit bureau information
- to ensure the accuracy and integrity of your personal information by using your SIN as an internal identification number for you

If a new purpose for using your personal information develops, we will ask for your consent first.

You can choose not to provide us with some or all of your personal information at any time. However, you must understand that if you make this choice, we may not be able to provide you with the product or service that you requested or that was or could be offered to you.

Your choices: If you would prefer not to receive our direct mail marketing service, you can have your name deleted from our direct marketing list and shared information lists. If you would prefer not to have your SIN used for administrative purposes, you can inform us and your wishes will be respected.

To obtain a copy of the Bank of Montreal "Your Privacy" brochure or to inform us of your request to exercise one or both of these options, please call MasterCard Customer Service or visit one of our Bank of Montreal branches.

[†] Bank of Montreal and mbanx Division are part of The Bank of Montreal Group of Companies which includes Bank of Montreal Mortgage Corporation, Bank of Montreal Investor Services Limited, Bank of Montreal Investor Management Limited, the Trust Company of Bank of Montreal, and Nesbitt Burns Inc.

TERMS AND CONDITIONS

I (the "Applicant") certify the information furnished in this application is true and correct and request that you (Bank of Montreal) establish a Bank of Montreal MasterCard Account in my name (the "MasterCard Account"). Please issue me a Bank of Montreal MasterCard card applied for or such other card as you may approve (the "Card") and send me renewals, substitutes, or replacements issued from time to time at your discretion. I request a Personal Identification Number (PIN) in order to allow me to use the Card in automated banking machines accessible with the Card from time to time. I request the services available to holders of the Card which may be issued to me and understand that such services may vary or be terminated from time to time and that some services or benefits may only be available to me if I enter into separate agreements or obtain separate authorizations. I acknowledge that some services or benefits, including the AIR MILES Reward Program, are supplied by firms independent of you and that you are not responsible or liable for anything in connection with those services or benefits. **If you issue me a Card I agree to abide by the Cardholder Agreement, (including the FirstHome Program provisions where applicable), as amended or replaced by you from time to time, which you send relating to that Card, and I agree that use of any Card applied for will show I received the Cardholder Agreement.** I will be responsible for all use of and any fees for or other charges to the MasterCard Account. Where a Co-applicant signs this application with me, we acknowledge that the terms of this application and all consents given in it, bind both of us and shall apply with whatever changes of grammar are necessary throughout this application. We also agree to be jointly and severally liable and, under Quebec law, solidarily liable which we acknowledge means together and separately, for all amounts charged to the MasterCard Account, and we authorize, through use of such Cards, deposits to and withdrawals from any Bank of Montreal Account designated by either of us. If I am approved for a MasterCard Account I consent to you providing my affinity group with my name, address, phone number and language preference. If I am approved for an AIR MILES MasterCard Account I consent to you providing Loyalty Management Group Canada Inc. or its agents ("LMG") any information reasonably required for the AIR MILES Reward Program (the "Program") and if no AIR MILES Collector Number is shown on this form, I consent to you providing LMG with my name and address for enrolment in the Program. Each Co-applicant signing also acknowledges that this application will not result in his or her enrolment in the Program and AIR MILES reward miles issued through the use of his or her Card will only be credited to the Applicant's MasterCard Account. **Applicable in the province of Quebec only:** It is the express wish of the parties that this agreement and related documents be drawn up and executed in English. Il est la volonté expresse des parties que cette convention et tous les documents s'y rattachant soient rédigés et signés en anglais.

For more information, visit our website at <http://www.bmo.com/mastercard> or call toll-free in Canada and the U.S.A.: 1-800-263-2263

®* Bank of Montreal is a licensed user of the registered trade mark and design of MasterCard International Inc.

® Registered trade mark of Bank of Montreal.

†† Insurance benefits provided by First North American Insurance Company, a subsidiary of The Manufacturers Life Insurance Company.

††† Trade mark of MasterCard International Inc. Bank of Montreal is an authorized user.

‡ Important details, including applicable limitations and exclusions of the Out-of-Canada Medical Insurance are contained in the Supplemental Guide to MasterAssist. Insurance benefits provided by The Manufacturers Life Insurance Company and First North American Insurance Company.

† Important details, including additional applicable limitations and exclusions of the MasterAssist and MasterPurchase insurance and travel assistance benefits are contained in the booklets that will follow under separate cover once you have received your new Gold MasterCard from Bank of Montreal. Insurance benefits provided and operated by The Manufacturers Life Insurance Company and First North American Insurance Company.

⊕† Registered trade mark of AIR MILES International Holdings N.V., used under license by Loyalty Management Group Canada Inc. and Bank of Montreal.

1 This offer does not include Home Equity Loan Plans or Conditional Sales Contracts. Loans are subject to credit approval. 1/4% reductions apply to new funds only. Subject to minimum loan rate at time of borrowing.

2 The first home must be in Canada and occupied as the mortgageor's principal residence. Down payment cannot be combined with any rate discount, AIR MILES reward miles or other mortgage offer. Accumulation is subject to the FirstHome Option provisions of the MasterCard Cardholder Agreement. The mortgage must be kept with Bank of Montreal for at least five years. Bank of Montreal has the right to end this program at any time. Family members who are applying transferred FirstHome Dollars against a down payment on a first home are subject to the 2 1/4% \$2,500 maximum.

3 Award of AIR MILES reward miles are made for purchases charged to your account and are subject to the terms and conditions in your MasterCard Cardholder Agreement.

4 Subject to credit availability and verification of identity.

MasterCard and Gold MasterCard Application

Carleton University



Are you a student? Yes ☐ No ☐ If yes, please complete student sections.

Please choose one of the following MasterCard Options by initialling your choice.
If no initial appears, this application will be for the No Fee Option.

NON-STUDENT

☐ No Fee **LPW** ☐ Low Rate **LPY** ☐ AIR MILES* **LPX** ☐ Low Rate AIR MILES* **LPZ** ☐ Gold MasterCard **LP2**

STUDENT

☐ No Fee **LP4** ☐ Low Rate **LP6** ☐ AIR MILES* **LP5** ☐ Low Rate AIR MILES* **LP7**

If you do not choose an AIR MILES option, you will be automatically enrolled in the FirstHome Program at no extra charge.

*The AIR MILES reward option is an additional \$35 annually. Reward options do not apply to Gold MasterCard.

Please refer to chart inside for annual fee options. Please print clearly and complete in full. To qualify for the Gold MasterCard card, your family income should be \$40,000 or more.

If you are already an AIR MILES Collector, please provide your Collector Number.

8

If your application is for a Gold MasterCard and you would like to add Out-of-Canada Medical Insurance, please initial

☐ **LP3**

Completed application may be handed in at any Bank of Montreal branch, faxed to: 1 888 454-3578, or folded, sealed, mailed

☐ Mr. ☐ Miss ☐ Dr.	First name	Initials		Last name		Social Insurance No. (optional)	
☐ Mrs. ☐ Ms.	Date of birth	No. of dependents excluding spouse	Area code	Home telephone	Area code	Business or school telephone	Send statement to
							☐ home ☐ business ☐ school ☐ English ☐ French
							Province Postal code
Present address (or permanent home address if student)				Apt. number	City		
Time at this address	years	months	specify		Monthly rent / mortgage / board	If student, your portion of monthly rent, mortgage or board while at permanent home address	
			☐ own ☐ rent ☐ school dormitory ☐ other		\$	\$	\$
Previous address if at present address less than 2 years (or school address if student)				Apt. No.	City	Province	No. of years

I already hold a Bank of Montreal MasterCard card and

☐ I will keep my current MasterCard card if I am eligible for the additional credit. Please complete the information below.
or ☐ I wish to close my current account and transfer the balance to the new account if issued.

Bank of Montreal MasterCard card number

5 1 9

Application must be signed and dated below.

Name of present employer	Time with this employer	years	months	☐ full time ☐ part time ☐ seasonal ☐ co-op
Present employer's address	Suite	City		
Province	Postal code	Present occupation	Self-employed ☐ no ☐ yes	
Previous employer if with present employer less than 2 years		No. of years	Previous occupation	

If student, please complete income section at the bottom of the application.

Gross monthly income	Spouse / Co-applicant's gross monthly income	Other monthly income	Total family monthly income
\$	\$	\$	\$

Spouse / Co-applicant information Spouse / Co-applicant's first name Initials Last name

Name of Spouse / Co-applicant's employer No. of years Occupation
Employer's address Suite City Province Postal code

Name of bank / financial institution Transit number Account number
Address City ☐ Chequing account ☐ Savings account ☐ Business account Province

Home mortgaged by Current mortgage amount Mortgage renewal
\$

Name of creditor / Account number	Monthly payment	Name of creditor / Account number	Balance owing
Loan	\$	Credit card	\$
Loan	\$	Credit card	\$

For students only

Are you ☐ Full time ☐ Part time

How many years have you completed? ☐ What year are you in now? ☐

Duration of current course month year
years

When do you expect to graduate? Did you graduate from a previous College/University ☐ yes ☐ no

Graduation Date month year

Please list your gross monthly income from all sources. Employment \$ Scholarship / Grant \$ Family \$ Savings \$ Interest \$ Other \$

Employment income listed above is ☐ Past ☐ Present ☐ Future If Past, please provide date month year

By signing below I consent to the Bank obtaining any credit and other information about me at any time from any source and the Bank may disclose any of this information at any time to any credit bureau or credit reporting agencies, any person who has or may have financial dealings with me, any person with whom I propose to have any financial dealings and any lenders in connection with any relationships between us or those which you or I may wish to establish. I/We have read the terms and conditions at the bottom and agree to be bound by them.

Signature of Applicant Date M D Y Signature of Spouse/Co-applicant if additional card required Date M D Y

**Take advantage
of this opportunity
to show your support
today.**

Please fold along this line, seal and mail.



0200424099-H3C5A3-BR01

ACCOUNTS OFFICE
PO BOX 11065 STN CENTRE VILLE
MONTREAL QC H3C 9Z9



Carleton co-op student Shamima Khan at The Object People in Ottawa.

Chalking it up to experience

Carleton's co-op program lets students take learning off of the blackboard and put it into practice.

By Erin Gaffney

Shortly after 9 a.m. on a Monday morning, Shamima Khan circles the halls of her fifth floor office suite looking for an empty boardroom. If you didn't know any better, you'd think she was a veteran employee with The Object People just by the way she recites her work schedule. The first hour of the morning is reserved for solving problems and doing administrative work such as status reports, while the rest of her day is spent programming and writing Java code.

Khan is a third year computer science student on a co-operative education assignment at the Ottawa headquarters of The Object People. The company provides Java and Smalltalk training, consulting and products worldwide.

Co-op is invaluable to Khan. "I can't imagine getting a degree without doing co-op," she says. Khan isn't the only one to recognize that academics and industry are complementary.

Local high-tech companies will provide 250 co-op placements for Carleton students through the Access to Opportuni-

ties Program (ATOP). ATOP was established by the Ontario government in May 1998 and is aimed at increasing university and college enrollments in high demand computer science and engineering courses. The province gives Carleton funding for every month an employer hires a co-op student. This money will be devoted to increasing the number of spaces available in the university's applied sciences and engineering programs.

The program offers four, eight, 12 and 16-month work periods. Carleton prides itself on offering longer work terms. Many universities offer only four-month placements.

Rosemary Carter, manager of the co-op office, says this past summer there were 245 students on work placements. By May, 2000, that number is expected to double. Carter attributes this to the wider range of co-op programs now offered at Carleton, an increase in enrolment and a rising interest among students and employers.

For many students, co-op is a way of making contacts that will help them land a

job after graduation. Dennis Leung, director of product development at The Object People, describes the experience as an extended job interview for both the student and the employer. The student has the chance to explore future career possibilities, while the employer seeks out potential full-time candidates.

Dan MacKinnon, a recent Carleton computer science graduate, landed a full-time position with The Object People because of co-op," he says. "I wouldn't be here if it wasn't for coop.

Khan isn't new to the co-op program. The Object People is her third placement. By the time she graduates she calculates that she'll have chalked up 20 months of work experience. "The experience has allowed me to take something off the blackboard and actually put it into practice," says Khan.



Erin Gaffney, BJ/98, is a masters student in Carleton's school of journalism and communication.

Steering Kroeger College in the right direction

A fundraising drive to raise \$1.5 million for the Carleton's new Kroeger College of Public Affairs is going full speed ahead with prominent Toronto businessman George Anderson, BA/69, at the helm.

The president and CEO of the Insurance Council of Canada has assumed a leadership role on the university's volunteer steering committee for the fundraising campaign which is being publicly launched October 2.

The former president of the Canada Mortgage and Housing Corporation and a former vice-president at National Trust, Anderson is an experienced executive in both the public and private sectors.

Helping give back to Carleton is simply a matter of "duty," says Anderson who attended the university from 1967-69.

Arthur Kroeger College of Public Affairs Campaign Steering Committee

George Anderson, BA/69 (chair)
Dennis Apedaile, BJ/69
Ray Mowling, BCom/65
Marc-Andre Charlebois
Mary Lou O'Reilly
David Dodge
Glen Pearce, BCom/77
Gaylen Duncan
Ray Protti
Lawson Hunter
Bob Richardson, BAHons/85
Norman Inkster
Keith Sjogren, BA/71
Pam Jeffery
Greg Traversy, BAHons/69
Bruce Linton, BPA/92
Harry Swain
Angela Marzolini, BAHons/91
David Walker, BAHons/70
Sean Moore, BA/75, DPA/76
Mark Yakabuski



Members of the Kroeger College campaign steering committee had an opportunity to tour the newly completed college facilities and to meet chancellor Arthur Kroeger and senior university staff and faculty when they gathered on campus August 23 for their first planning meeting.

"The experience I had at Carleton really set me on the course to a worthwhile adult life," he says. "When an institution gives you that you owe something in return."

As chair, Anderson's role is to organize the campaign team, help decide a fundraising strategy and to motivate the members to successfully canvass various sectors of the economy for funds. He's helped recruit 20 top business people—many of whom are Carleton graduates—and has already raised more than \$100,000.

Kroeger College will be the home of Carleton's new four-year bachelor of public affairs and policy management program launched this fall. Funds raised over the next three years will go toward program enhancements such as infrastructure and renovations, an annual leadership conference, sponsors for the college's third-year co-op program, visiting fellowships and an endowment fund.

The college is named in honour of Carleton's chancellor, Arthur Kroeger.

Two former Ottawa journalists lead

Dorothy Bishop and Eleanore Powell were not acquainted with each other during their lifetime. But, in many ways, the lives of these two remarkable women have been curiously entwined both in life and in death.

Born just five years apart, Bishop, a former English teacher, taught for 32 years at Lisgar Collegiate in Ottawa, the same school Powell attended as a teenager. Each woman had a passion for the written word and, ultimately, each pursued a career in journalism.

In an odd coincidence, Bishop and Powell died within two weeks of each other this past year, each leaving behind a permanent legacy to Carleton by naming the university in their estates.

These generous bequests have been designated to Carleton's Kesterton Endowment Fund named for the late Wilfred Kesterton, BJ/49, a long-serving journalism professor at Carleton.

"We are fortunate to have so many generous friends and alumni who are remembering Carleton in their wills," says Pam Miles, Carleton's planned giving officer. "These two recent bequests are a testament to the excellent reputation Carleton has in the community, particularly its school of journalism. These gifts will benefit students and faculty members for many years to come."

Bishop's connection with Carleton began in the late 1940s when she took a sabbatical from teaching to study journalism as a mature student. She graduated with a bachelor of journalism in 1949. This led to her second career as a weekly columnist for the *Ottawa Journal* which ran for 25 years until the paper closed in 1980.

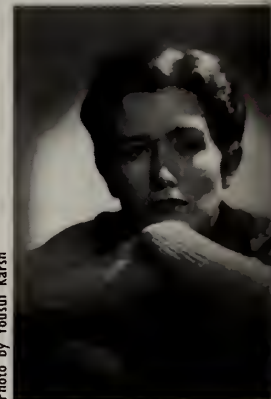


Photo by Yousuf Karsh

Dorothy Louise Bishop, left

Stay tuned for news, weather, sports and ... business

As the office water-cooler chit-chat turns increasingly to stocks, bonds and corporate takeovers, it's no surprise that business reporting in Canada is enjoying something of a renaissance. But many industry executives say there aren't enough qualified journalists to satisfy the upswing in interest.

By Nick Greenfield

In response to the growing demand for journalists who can interpret and explain current economic issues, Carleton's school of journalism and communication is seeking sponsorship for the establishment of a chair in business and financial journalism.

The new degree program, slated to start in the fall of 2000, will prepare Carleton journalism graduates to report on current economic issues and better understand the factors influencing corporate governance, market dynamics and the financial services sector.

To facilitate the \$700,000 start-up cost of the chair and program, the university is

seeking industry donors to back the initiative.

In the months since it was announced, the fundraising drive has garnered generous support. Major gifts from Canada NewsWire Ltd. (CNW), Panasonic Canada

Inc., Imasco Ltd., Power Corporation of Canada, McLean Budden Ltd. and *The Ottawa Citizen* bring the total raised to date to \$230,000.

Jodi White, BJ/70, is an active member of the fundraising steering committee and has been instrumental in securing gifts for the journalism campaign including the donation from Imasco Ltd., where Jodi is



Jodi White

vice-president of corporate affairs. Imasco's interests include Shopper's Drug Mart, Imperial Tobacco, CT Financial and Genstar, a real estate developer.

Such support demonstrates yet again the importance that both media and non-media firms place in specialized training with respect to business reporting, notes J-school director Chris Dornan. "We are grateful for this tangible show of support for our teaching and research efforts."

Melanie Kurzuk, CNW's corporate communications manager, says, "Media at major daily newspapers across Canada, especially in the business sections, have told us that they wish that they had a larger resource pool of business journalists to call upon. So this is our way of responding by supporting this initiative at Carleton. I think Carleton is definitely leading the way."

Russ Mills, publisher of *The Ottawa Citizen*, says a readership focus group conducted recently by the newspaper backs up these anecdotal claims.

"There's been a lack of financial training in Canada," he says "It's going to be a growing need in the future ... even younger people in their early 20s seemed to be quite aware of business issues, the stock market, mutual funds and so on and that surprised me somewhat."

The fact that younger generations are zeroing in on business in the news reflects a changing society, says Mills. "We're moving into a society where entrepreneurship and business activity are going to be even more important than they have in the past and so the media are going to have to be there to cover all aspects of that—finance, marketing, entrepreneurship and strategy—and the journalism schools of Canada are going to have to produce people who can come to us with the knowledge to do that."



Nick Greenfield, BJ/99, is a freelance writer based in Russell, Ontario.

Generous bequests to Carleton

Following her death at the age of 87 in Toronto on December 31, 1998, the university learned that Bishop had left one fifth of her estate to Carleton. In memory of her time spent in the school of journalism, the gift will be used to support activities of the school such as the annual lecture series, purchase of equipment, student internships and student aid.

Powell, the daughter of Robert Martin, the late *Ottawa Citizen* news editor, followed in his footsteps as a reporter covering a wide variety of beats, including that of women in the armed services after the outbreak of the Second World War. She later resigned from the Ottawa newspaper to join the women's division of the Royal Canadian Air Force as a public relations officer.

Powell died suddenly on January 15, 1999, at the Perley and Rideau Veterans' Health Centre in Ottawa, leaving behind her husband of nearly 50 years. In honour of her parents, Robert and Alyce Martin, Powell left a portion of her estate to Carleton to endow a named scholarship for journalism students.

The Kesterton Endowment Fund, which is aimed at ensuring the school of journalism and communication remains financially self-sufficient, has recently reached the halfway mark of its \$500,000 goal. To date, 50 graduates and friends of Carleton have made a

leadership gift or pledge of \$1,500 or more to the Kesterton Endowment Fund. The names of these founding members will be recognized on a special plaque which will be displayed prominently in the school to serve as a reminder of the generous contributions of alumni. For more information please contact Andy Donovan at (613) 520-2600 Ext. 8652 or email andrew_donovan@carleton.ca.



Eleanor Powell (Martin).



Colleen Lundy, director of the school of social work, left, and former director Allan Moscovitch call alumni during a telemarketing blitz.

Dialing for dollars

\$50,000 social work bursary fund half way to goal

June Hebert, 73, was surfing the Internet at her lakeside home in rural Quebec when she read about the fundraising campaign underway for a bursary fund for students of Carleton's school of social work.

With the click of a mouse, the retired business administrator from Montreal pledged a generous \$1,000 donation toward the bursary which has been established to commemorate the 50th anniversary of the school. The bursary fund will help increase accessibility to post-secondary social work education for students in financial need, while helping the school to retain top-quality students who might otherwise be unable to afford their tuition.

"As it was the 50th anniversary, I felt this was the occasion to give," says Hebert, MSW/68. "I felt this is the time."

Hebert was 40 years old when she first registered in the school of social work. She recalls there was a question of whether she was able to enroll due to her age. "I'm very grateful to the school for being lenient and overruling the policy, she says. "They took me in, I graduated and I always felt very grateful for that."

Hebert is one of more than 300 alumni who have donated to the bursary fund since the fundraising campaign was launched in June with a telemarketing blitz. Faculty, students and alumni volunteers have called nearly 1,600 of the 2,000 plus graduates of the school. To date the total in gifts and pledges is approximately \$25,000.

This initial success in reaching half of the \$50,000 goal will be just one more reason to celebrate in October when the school will host a series of 50th anniversary celebrations during Homecoming weekend October 1-3.

The fundraising project is an example of a cooperative model between the development office, the academic department and alumni.

"The partnership that has resulted has been an excellent opportunity to further social work alumni development and is a superb example of what can be accomplished through inter-departmental teamwork and coordination at Carleton," says Allison Dixon, BA/90, MSW/97, chair of the 50th anniversary reunion committee.

Grateful grad glad to return the favour

In recognition of the generosity Carleton showed him 30 years ago, John Zoppas, BA/69, has recently returned the favour.

"In my third or fourth year, I can't even remember which it was, I was running on air," says Zoppas, a manager with Manulife Financial in Mississauga, Ontario. "The university gave me a bursary and allowed me to continue my studies. That's why I'm always thrilled to give back to Carleton."

The donation comes after Zoppas received Manulife Financial's 1998 Star of Excellence, which includes a donation to the charity of the recipient's choice. The annual award recognizes employees who have shown outstanding and dedicated service to the betterment of the company and its clients. It is the second time Zoppas has received the award. He first received the distinction in 1995.

Manulife recently presented a cheque in the amount of \$500 on behalf of Zoppas to Carleton University's alumni scholarship endowment fund. Zoppas says he didn't even hesitate before donating the award to Carleton.

"I give whenever I can because if you can help someone else in the long-run, then it's worth it. As alumni we need to do everything we can do to help out and enhance the reputation of Carleton."

Carleton didn't give up on John Zoppas 30 years ago. Now Zoppas has made it his task to continue providing for future generations of students at the university.



John Zoppas



Carleton
UNIVERSITY

LEAVING A LEGACY

Since 1942, Carleton University has set a proud standard for teaching and research in Canada's capital. Private support, through direct donations and planned gifts, have helped to make this success possible.

For more information about making planned gifts—including bequests, trusts, gifts through life insurance, or other planned giving opportunities—to Carleton University, or the Carleton University Foundation, please contact:

Pamela Miles
Planned Giving officer
Development and Alumni Services
1125 Colonel By Drive, Ottawa, Ontario K1S 5B6

Phone: (613) 520-3636
Fax: (613) 520-3587

www.carleton.ca/alumni

Making his ideas click

By Nick Greenfield

Carleton graduate Darin Cosgrove of NewPublishing.com has volunteered his services this year to redesign the online version of *Carleton University Magazine*. Giving back to his alma mater, says Cosgrove, "just made sense since Carleton was where I was first introduced to the Internet. I can remember the specific course (Communications Technology and Culture) which sparked my interest in the medium and ultimately led me to what I'm doing today."

Conducting an interview in Darin Cosgrove's office can be a bit distracting. There is a cool and relaxing breeze, a morning sun, that despite being broken by the shade of a nearby maple tree, makes visitors feel warm and invited, and that's not to mention the hypnotically perpetual lapping of the St. Lawrence river a few metres away.

It's a wonder that Cosgrove, BA/95, gets any work done at all. Then again, when you've grown up in Brockville, the city of the Thousand Islands, having a picnic table office in the middle of a lush park overlooking a snapshot-worthy stretch of the St. Lawrence might seem kind of ordinary.

But as Cosgrove describes the history behind New Publishing, his desk-top publishing business that is responsible for the new look of the *Carleton University Magazine* Web site, it becomes obvious that in the wake of the communications technology boon, where you're situated isn't as important as what you have to offer.

Cosgrove, 29, says he was a closet computer nerd since he's been 15. Not having a strong math background, he didn't pursue computer courses in university. During his Carleton years, though, he ran a few of his own businesses to help pay his tuition. Whether it was a car cleaning service for dealerships or an on-line publication to find used cars, he soon learned that running his own business was more in tune with his personality—most facets of it at least.

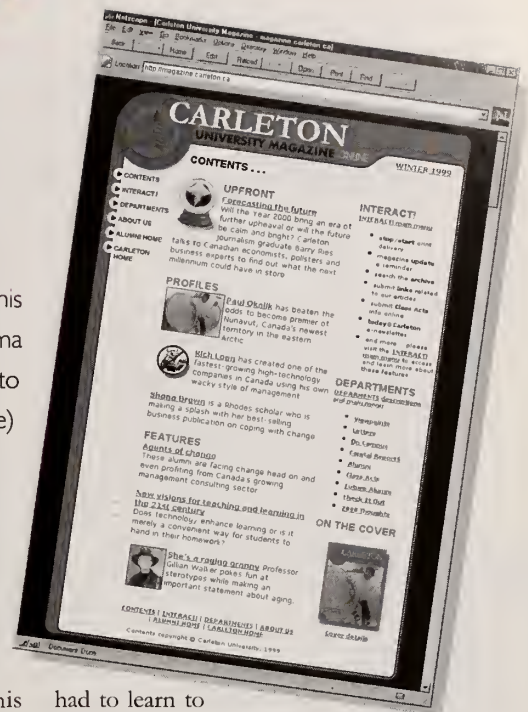
"I have that kind of entrepreneurial background, but the fact is, I'm a really lousy capitalist," he laughs. "What I'm good at is coming up with ideas and putting them in place. The tough part is selling them."

Cosgrove says the idea for New Publishing, a service that makes on-line publi-

cation an extension of a client's existing product, hit him like a lightning bolt while driving from his aunt's cottage a little over a year ago. He laughs as he recounts that no sooner had the car stopped than he was scribbling down the ideas swimming about madly in his head.

Cosgrove's relaxed manner, as soothing as the waves behind him, belies his fierce intellect and desire to succeed. And since it's been forecast that ideas will spur the economy of the new millennium, Cosgrove's short-comings as a capitalist might not matter all that much anyway. In the golden age of communications, Cosgrove has also shown it doesn't matter whether your business partners are halfway around the world—Cosgrove's two partners are in Texas and Nova Scotia. In fact, he's never even met them.

In a business world that changes as often as the seasons, Cosgrove says he has



had to learn to become a student again.

"I not only have to stay on top of the technological aspects, I have to follow the trends in terms of what the users are expecting, which is, they just don't want to sit there and read. They want to be able to interact in a meaningful way, not just click here to read the next story. That's the key to making a successful on-line publication," he says. "I'm still not finished. I'll never be finished, because the on-line situation is changing constantly."



Nick Greenfield, BJ/99, is a freelance writer based in Russell, Ontario.



Darin Cosgrove runs his online publishing company from his "office" in the park.

A.D. Dunton Alumni *Award*

Nominations are being accepted for the 1999 A.D. Dunton Alumni Award.

Named in memory of Carleton's beloved fourth president who served the university from 1958-1972, the A.D. Dunton Alumni Award is Carleton's most prestigious alumni honour.

It is given annually by the Carleton University Alumni Association

to a graduate in recognition of outstanding achievement or contribution in any field of endeavour.

Members of the university community are invited to nominate alumni for this award.

The committee would appreciate receiving supporting reasons or biographical information with the nominations.

Nominations should be submitted on or before
October 15, 1999

to:
Nominating
Committee
A.D. Dunton Award
Room 510, Robertson Hall
Carleton University
1125 Colonel By Drive
Ottawa, Ontario K1S 5B6
Fax: (613) 520-3587



In memoriam

Clarence Bolger, BA(Hons)/81,
on June 5, 1999

Suzanne Peters, BA/69,
BA(Hons)/70, MA/73,
on March 22, 1999

Michael James Scott, BA/73,
on December 24, 1998

Kennedy McRae Wells, BJ/54,
on October 17, 1998

Go East, young scholars

New alumni award created for Calgary high school students

The first Calgary Alumni Award, to be awarded in the 2000-2001 academic year to a Carleton-bound Calgary area high school student, is the result of a partnership between a group of dedicated Calgary alumni and the university.

The \$1,500 award, to be given annually, will further boost the university's flourishing reputation, says Gary Shaver, assistant director, alumni, at Carleton.

"I think the university has gone to great lengths to promote itself as a fine institution of higher learning. The goal

of the Calgary Alumni Award is to promote Carleton through a committed alumni group and to bolster our support and recruiting efforts."

A group of Calgary area graduates has formed a selection committee to work with the university to promote and grant the annual award. The committee will consider applicants' academic excellence, extra-curricular activities and financial need when selecting a candidate.

"We're very proud of our alumni and very appreciative of the initiative demonstrated by this group," says Shaver.

Decades of dedication

House-Laughton
Hoops Classic
celebrates 10th
anniversary



George House, left, and Bob Laughton, right, present the all-star award to Raven Jafeth Masaruka at a 1998 tournament.

George House and Bob Laughton have been scoring points together on the courts since grade school.

As childhood chums in Ottawa, they played together in city junior and senior basketball leagues at Glebe Collegiate. As teammates in the 1950s for the Ravens, they played on the first Carleton team to capture an intercollegiate championship in 1956-'57 and again in 1958-'59.

The two Ottawa lawyers teamed up again in 1990 to establish an annual invitation tournament that bears their names. Through sponsorship and hands-on assistance, they've worked over the past 10 years to make the House-Laughton Hoops Classic the premier Canadian intercollegiate basketball tournament.

House and Laughton have each kept active in sporting and community circles since graduating from Carleton. Each has coached at the university level—House at the University of Ottawa and Laughton at Carleton. They also worked together for several years as play-by-play and colour commentators for cable television's coverage of university basketball. Laughton currently serves as chair of Carleton's board of governors.

"Rather than be just supporters in the stands, we wanted to stay involved in Carleton athletics and to give something back to the university," says House.

Members of the public are welcome to attend the 1999 House-Laughton Hoops Classic as it celebrates its 10th season Friday, October 29 and Saturday, October 30 at 6:00 and 8:00 p.m. at Carleton. Visiting teams include St. Francis Xavier, Brock University and Concordia University.

Inaugural alumni awards to be presented at Homecoming

Two Carleton graduates, Gail Larose, BAHons/69, MA/70, and Jeffrey White, BEng/63, will be presented with the inaugural alumni of the year awards on October 2, 1999, at the president's reception for Homecoming '99. Larose was named alumna of the year and White was chosen as alumni entrepreneur of the year.

The awards were created by the Carleton University Alumni Association (CUAA) to recognize Carleton graduates for their outstanding contributions to the university and to the world, in many fields of endeavour.

"The opportunity to recognize our colleagues and friends, while demonstrating to the world the diversity of success that Carleton grads achieve, was foremost in our minds when we created these awards," says CUAA vice-president Patrick O'Reilly. "We're very proud of our graduates and we hope to continue to honour their success stories."

Gail Larose: alumna of the year

There are some days Gail Larose would rather stay in her garden than come to Carleton's campus for a meeting of the board of governors.

But if she always kept her gardening gloves on she knows someone else would do the job for her.

So, Larose chooses to take her off her gloves and let nature tend to itself while she tends to Carleton University—a job she's been doing since she left Carleton 29 years ago.

Larose was completely surprised and flattered when the Carleton University Alumni Association named her the inaugural recipient last spring of the alumna of the year award for her longstanding contributions to the advancement of alumni affairs and activities.

"When you consider the fact that I know the people who sat around and made the decision, it's very humbling," she says.

Larose was one of the key figures in the growth of the alumni association during her terms as CUAA's vice-president from 1984 to 1986 and in 1989 and then



Gail Larose

as president of the association from 1995 to 1996. In 1992 she was asked by former Carleton president Robin Farquhar to co-chair the *President's Commission on the Second Half-Century*. On the strength of her contribution, the initiative was integral in defining the physical, academic and financial shape of Carleton in the late 1990s.

Larose currently serves on the university's board of governors and as chair of the university relations committee.

"Gail has been a mentor and leader to alumni since she herself graduated from Carleton," says O'Reilly. "She has been instrumental, not only in nurturing the alumni association to the phenomenal success it is today, but also in building the university itself."

If there is one thing that Larose finds most memorable and rewarding about her past and present service at Carleton, she says it always comes down to the people. "I've met all different generations of Carleton alumni and finding different people's perspectives is just so rewarding"

Jeffrey White: entrepreneur of the year

Jeffrey White is used to accolades. As president of the Ottawa-based consulting firm Delta Engineering, White has been recognized for his contributions to the field of environmental engineering through numerous awards in Canada and the United States. But none of those awards can equal his satisfaction with being awarded the first alumni entrepreneur of the year award.

"I'm inspired and flattered," says White. "It means a lot because it was given by my peers really."

Many of Delta's varied awards recognize the company's innovative project known as Snowfluent, a completely natural way to treat wastewater by turning it into snow. Though still in relative infancy, Snowfluent is expected to result in many long-term social and economic benefits.

"Jeffrey's leading development of Snowfluent has been recognized worldwide and we feel it was time his *alma mater* told the alumni family of his success," says O'Reilly.

White looks back on his time as Carleton with fondness. "There was such a sense of community ... we were building a school," he says. "It was a great experience and it was innovative and that's what I got out of Carleton."

White's penchant for innovation extended past his university days and into a 30-year professional career that has seen Delta Engineering, with White at the helm, carve out a name for itself in the competitive engineering industry.

White was the recipient of two major awards recently—the 1997 Newsmakers Award for Excellence as one of the top 25 newsmakers in the engineering field given by the Engineering News Record, an American magazine, and the Schreyer Award of 1997, the highest honour given by the Association of Consulting Engineers of Canada.



Jeffrey White

Fifties

'54

Jane M.W. Steed (Rutherford), BA/54, lives at Killarney on the Lake at Kootenay Lake, Nelson, British Columbia. After ten years of rural living, Jane has decided to move on and has put her house on the market.

'59

Joe Pelisek, BA/59, BJ/60, was recently appointed a life member of Montgomery Branch 351, of the Royal Canadian Legion and was elected and installed as the senior warden for Edinburgh Lodge 736. Both branches are in Ottawa. Joe lives in Gloucester, Ontario.



Sixties

'61

Donald Atwell, BCom/61, is chairman of the Windsor District Chamber of Commerce. Donald lives in Windsor, Ontario.

'62

J. Roy Boucher, BA/62, was appointed director of mission education at St. Joseph's Health Centre of Sudbury Regional Hospital in July, 1998. He continues to represent the Ontario Conference of Catholic Bishops on the Ontario multi-faith council on spiritual and religious care and also serves on the Ontario government's joint committee for spiritual and religious care. Roy lives in Sudbury, Ontario.

'65

Diane Barnett (Bain), BA/65, has published her first book, *What You Need to Know About Hospitals*. The book demystifies how hospitals work and empowers the average health care consumer. The book is published in America, but could be relevant to the evolving Canadian health care system. Diane lives in Austin, Texas, where she works as a registered nurse and freelance writer.

'66

W. Roland Davis, BEng/66, MEng/67, has been awarded the Robert W. Angus Medal for outstanding contributions to the practice or management of mechanical engineering. In 1975, he established the consulting engineering firm of Davis Engineering. Roland is recognized world-wide as a leader in signature management with a focus on modeling and simulation as well as hardware design and fabrication. He lives in Ottawa.

Allan Edward (Lanny) Jacques, BCom/66, and his wife **Geri, BA/69**, moved to Regina, Saskatchewan, in 1987 where Lanny holds the position of regional director general of Human Resources Development Canada. They welcome emails to gerilan@hotmail.com.

Dave Murray, BA/66, and **Anne Warminton, BA/70**, are happy to announce their engagement. The ceremony is set for June, 2000, in Ottawa. Dave lives in Mississauga, Ontario, where he works with the QuikX group of companies as vice-president, marketing and sales (QuikX) and vice-president and general manager (TrukX). Anne, a retired teacher, maintains a full-time practice as a psychotherapist and educator with the Adlerian Centre in Ottawa.

'67

David Eisenstadt, BJ/67, is a founding partner of The Communications Group Inc. of Toronto and past chairman of the Minneapolis-based Pinnacle Worldwide Group. David has served as international chairman of the Public Relations Society

of America counselors academy's executive committee, has headed the Canadian Public Relations Society's (CPRS) consultants' institute in Toronto and has served on the CPRS national accreditation board. David continues as a regular writer and speaker and has lectured at Ryerson Polytechnic Institute and Humber College on public relations and business communications. He lives in Toronto.

Patricia Morley, MA/67, has released her 10th book, *The Mountain is Moving: Japanese Women's Lives*. Patricia is professor emerita at Concordia University and a lifetime honorary fellow of the Simone de Beauvoir Institute. She lives in Manotick, Ontario.

'69

Jim Robinson, BEng/69, has relocated to Toronto to assume the position of director of engineering for Falconbridge Limited. Jim lives in Oakville, Ontario.

Seventies

'72

W. Keith McLaughlin, BA/72, is a project leader of federal and provincial relations with Alberta Health. Keith lives in Edmonton.

Tom Sherwood, MA/72, PhD/94, has accepted a position at Carleton University as ecumenical chaplain. He previously served as minister of Orleans United Church for 15 years. Tom lives in Orleans, Ontario.

Frank Vallee, 1918 - 1999

Frank Vallee, professor emeritus in sociology passed away peacefully on Friday, July 2, 1999. A founding member of the sociology and anthropology department at Carleton, he received his BA from McGill University and a PhD from the University of London.

His research concerned the concepts of race, ethnic and minority relations—specifically the viability of the French language outside Quebec. His expertise in Inuit studies served him well as a member of the Northwest Territories Legislative Council from 1965 to 1967.

His distinguished career was highlighted by many honours such as the Centennial Medal in July 1967 and a fellowship in the Royal Society of Canada. He also received the outstanding contribution award in 1991 from the Canadian Sociology and Anthropology Association. He retired in 1991.

Carleton has established the Frank Vallee Memorial Scholarship in his honour. For information or to contribute call (613) 520-3636.

Edward (Ted) B. Smith, BA/72, was recently appointed chief executive officer of Standardbred Canada, the national organization for harness racing in Canada. Ted lives in Mississauga, Ontario.

'73



Bruce W. Boyd, BScHons/73, was inducted into the prestigious Canadian Institute of Mining Fellowship at the 100th annual general meeting of the institute held in May, 1998, in Montreal. Bruce is a deputy director in the minerals division of Natural Resources Canada.

'74

Martin Glynn, BAHons/74, was recently appointed chief operating officer with the Hong Kong Shanghai Banking Corporation, formerly called the Hong Kong Bank of Canada, in Vancouver, British Columbia.

'75

Jan Figurski, BA/75, was recently published in *Souwesto Words: 25 Poets in Southwestern Ontario Canada*. The spoken word, compact disc was published by Ergo Publications in London, Ontario, where Jan resides.

Michael Pollesel, MA/75, recently resigned as rector of St. Thomas, Belleville, to take on the newly formed position of stewardship education coordinator for the Diocese of Ontario. Michael lives in Oxford Station, Ontario.

Janice Williamson, BA/75, lives in Edmonton where she is a professor in the department of English at the University of Alberta. On January 15, 1999, she adopted Rae Xiao Bao, who was born on August 3, 1997, in Maoming, China.

'76

Christopher Neal, BAHons/76, has been appointed external affairs officer for Latin America at the World Bank. Chris lives with his wife Mayra and daughter Monica in Silver Springs, Maryland, while his son **Javier** is a Carleton student. Chris recently joined the Carleton University President's Advisory Council in Washington.

'78

Mary Louise Hill, BScHons/78, has

Looking at life through his lens

Royal Canadian Academy of Arts inducts Calgary photographer

By Nick Greenfield

The allure of photography is obvious. Point. Click. Instant memory. Everyone's taken a picture at some point. Some discerning clickers have probably even taken one they're quite proud of—they might even call it art. But for an art form that seemingly relies on intuition and chance more than anything else, it's refreshing to speak with a photographer whose artistic rationale isn't much different from the pointers and clickers of the world.

A photograph might capture an individual moment in time, but it's the memories attached to such images that define the work of George Webber. The Calgary artist has captured indelible portraits of the myth and spirituality of prairie culture since leaving Carleton's school of journalism in 1974.

Webber's work, which often features the Hutterite and native communities of Alberta, has earned his mostly black and white, award-winning photography a place in numerous collections. In April, 1999, he was recognized for his achievements with his induction into the Royal Canadian Academy of Arts—the oldest bilingual visual arts organization in Canada.

Webber believes the photographic image is only a key to the greater understanding of both the artist and his craft.

"It's like an appetite for inspiration," says the 47-year-old self-taught photographer for the Southern Alberta Institute of Technology. "When you look at any body of work it reflects the artist."

Webber recalls the plight of a devoted elderly Chinese couple he encountered some years ago at their New Dayton, Alberta, general store. The couple had suffered through 55 years of separation after the husband left China in 1930 to open the store, unaware that immigration policy would not allow his wife and infant daughter to join him until 1986. "It's an example of

the heroic, almost mythic, quality of the people who live here."

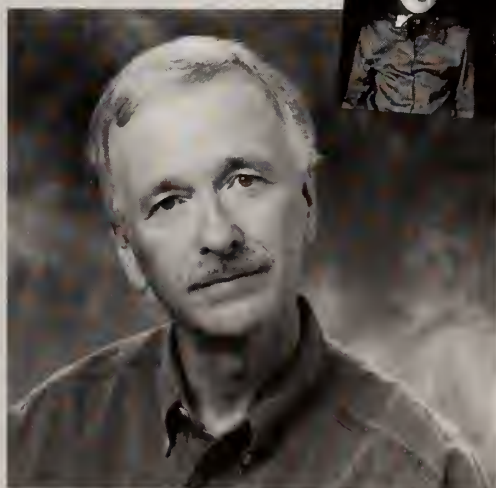
Everyone's early years are filled with memories. When Webber talks of his hot and dusty Alberta childhood of foraging for dinosaur bones in the Badlands or mingling with the diverse cultures around his birthplace of Drumheller, his clarity of memory is underpinned by a sincerity affirming the importance of such recollections. "It's all those things I've seen when I was seven or eight that I've tended to photograph."

Webber's fascination with the organic and ephemeral relationship between the prairie and its people threads through many of his photographs. "It's often about being at an exact place at an exact time and the grace of God that (a picture) works."

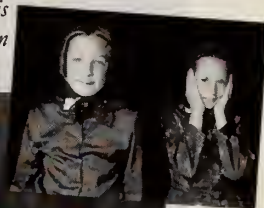
Such a statement could be taken as inspiration for the pointers and clickers of the world. But Webber's obvious understatement is rather a genuine reflection of a casual humility that won't allow accolades to detract from his obvious rapture with the lives on the other side of his camera lens.



Nick Greenfield, BJ/99, is a freelance writer based in Russell, Ontario.



George Webber



Globe-trotting grads appointed to mission posts

ITALY—After serving as director of communications in the office of the prime minister since 1993, **Peter Donolo, BAHons/81**, was appointed consul general in Milan.

Donolo has been a senior member of Canadian delegations on trade missions and at international summits and conferences over the last six years. From 1991 to 1993, he was director of communications in the office of the leader of the opposition. He previously served as communications advisor to the Mayor of Toronto.

Donolo is married to Mary Cruden and they have three children.

FRANCE—**Suzanne Hurtubise, BA/74, MA/76**, was appointed ambassador and permanent representative to the Organization for Economic Cooperation and Development in Paris on June 10, 1999.

Hurtubise joined the federal Department of Finance as an economist in 1976. During the 1980s, she served as

an economist for the National Assembly of Québec, as assistant secretary of the Canadian Industrial Renewal Board and has held various titles in the Department of Finance. Hurtubise went on to hold high-ranking positions in the Privy Council Office, the Departments of Transport, Consumer and Corporate Affairs and the Federal-Provincial Relations Office. In 1995, Hurtubise was appointed deputy minister of Canadian Heritage.

LATVIA—**Peter McKellar, BAHons/63**, was appointed ambassador to the Republic of Latvia on June 10, 1999, becoming Canada's first resident ambassador to Latvia.

McKellar joined the Department of External Affairs in 1966 and has served abroad in Paris, Yaoundé, Mexico City and Washington and at the Canadian Consulate General in New York. From 1993 to



1997, he served in Vienna as minister-counselor and as ambassador and deputy head of the Canadian delegation to the Organization for Security and Cooperation in Europe. Since 1997, McKellar has been director, central Europe division, for the Department of Foreign Affairs and International Trade.

GRENADA—**Ruth Elizabeth Rouse, BA/96**, was appointed May 1, 1999, as Grenada's high commissioner to the United Kingdom.

Rouse, 36, joined the Grenada Public Service (ministry of foreign affairs) in 1982. She was seconded to the Organization of Eastern Caribbean States high commission in Ottawa in 1990 where she was responsible for protocol, culture, consular and development affairs until her return to Grenada in 1996. In 1998, Rouse received the Independence Award for outstanding public service.



been appointed vice-president (academic) at Lakehead University in Thunder Bay, Ontario. Mary lives in Thunder Bay.

Carla McLaughlin (Nickorick), BA/78, BAHons/79, and her husband Bill McLaughlin are delighted to announce the arrival of their daughter, Alexandra Elena, on December 14, 1997. Bill and Carla teach with the Bluewater Board of Education in Kincardine, Ontario.

Deanna Refling (Witiuk), BSc/78, moved to Brampton, Ontario, in the summer of 1997. She has two sons, ages eight and four.

'79

Margaret Emery, BJ/79, spent a week in Honduras in February helping the team that delivered medical supplies and built an addition on a clinic in San Pedro Sula. Margaret lives in Scranton, Pennsylvania.

Gillis Harp, BAHons/79, has accepted a position as a professor of history at Grove City College in Pennsylvania. He taught previously at McGill and Acadia universities. Gillis recently published a book, *Positivist Republic: Auguste Comte and the Reconstruction of American Liberalism, 1865-1920*.

He and his wife live in Wolfville, Nova Scotia, and have three daughters.

Eighties

'80

Per Andersen, BEng/80, and **Susan Andersen (Atkins), BA/80**, live in Lubbock, Texas, where Per is the director of advanced computing in the department of computer science at Texas Tech University and Susan is a family nurse practitioner.

Brian Ford, BA/80, was awarded a one-year appointment to the Carleton University senate. He will represent the national alumni council on the senate from July 1, 1999, to June 30, 2000. Brian is chief of police for the Ottawa-Carleton region.

Hans Peter Hincke, BScHons/80, was ordained as a Lutheran minister in October, 1998, and is the pastor at St. Matthew's Lutheran church in Cornwall, Ontario. He lives in Long Sault, Ontario.

Ruth Panofsky, BAHons/80, has recently published two books, *Adele Wiseman: An Annotated Bibliography* and *The Selected Let-*

ters of Margaret Laurence and Adele Wiseman. Ruth is a member of the English department at Ryerson Polytechnic Institute in Toronto. She and her husband Gary Gottlieb live Thornhill with their two children, Bram and Liza.

'81

Linda MacLennan, BJ/81, and her husband, David Rammelt, welcomed their third child and first daughter, Charlotte Grace Nelson Rammelt, on May 7, 1999. Linda will return to her job as news anchor at CBS-owned *WBBM-TV* in Chicago after a brief maternity leave.

'82

Marie Coletto-Tamming, BA/82, and her husband Martin Tamming, welcomed their third son, Jesse John Leo Tamming (Coletto), on March 19, 1999. Jesse joins his parents and his brothers, Levi and Hayden, at their home in Nepean, Ontario. **Scott MacIntosh, BAHons/82**, lives in Washington, D.C., where he has recently been appointed director of research for the Building Owner's and Manager's Association.

Publishing in cyberspace

E-Book author keeps pace with booming new industry

By Nick Greenfield

In a culture accustomed to the fast-paced, high-quantity consumption of material, it's no small wonder e-books are growing in popularity. Chances are e-books evolved so quickly most people haven't even heard of them.

But these on-line publications which can be downloaded from the Internet have been around for almost four years now and Carleton grad Norah-Jean Perkin, BJ/74, is one author who is keeping pace with this booming industry.

Perkin's first e-book, *Blue Dawn*, is a paranormal romance about an alien who comes to Earth to find his destiny, only to find the heart he didn't know he had. The book is available on computer disk or can be downloaded from the Web site for The Fiction Works, an electronic publisher based in Nevada.

Blue Dawn is Perkin's fifth book and the first she's sold to an e-book publisher. Like the storyline for Perkin's novel, the concept of electronic publishing might sound otherworldly. But the groundwork she learned 25 years ago from Carleton's school of journalism is just as relevant today in this newest book publishing trade.

"Carleton helped make me a good writer of any kind," says Perkin. "Becoming a fiction writer just sort of evolved."

The biggest change in the publishing industry in the post-fax/e-mail revolution is the speedy submission and turn-around of an author's material, says Perkin, a former reporter, magazine editor and a current partner in Perkin Aniol and Associates, a management and communications consulting firm in Stratford, Ontario. "It just allows you to get your work out there so much more quickly. It seems to be growing and a lot of people seem to be learning about e-books."



Norah-Jean Perkin

Web books cost considerably less than conventionally published works by eliminating paper and ink, shipping fees, unsold copies and middlemen.

However, initial sales of e-books generally aren't as strong as traditional, bound publications, says Perkin. Some people are still reluctant to read a book by scrolling on a computer screen. She herself wasn't convinced of the potential of e-books until she saw her own 14-year-old son reading an e-book on a palm held computer in their home.

"Some people say, 'Oh, I'd never want to read a book on a computer.' But kids are so used to computers and Gameboys today that it's almost natural to read that way."

These books of the future have built-in links to pictures, sounds and other relevant Web sites. You can read one page at a time and just click a mouse once to turn the page.

Natural or otherworldly, e-books are emerging as a popular trend in the electronic publishing industry. And if Perkin's own son is any indication, reading books on a computer might soon be as common as flipping a page.



Nick Greenfield, BJ/99, is a freelance writer based in Russell, Ontario.

'83

Joanna Fox, BA/83, is combining work and fun as a communications consultant and a mother to her four-year-old son Liam and one-year-old daughter Una. Joanna and her husband Lister Farrar are renovating a heritage house and enjoying all of the outdoor activities Vancouver Island has to offer.

Kathy D. Letterick, BA/83, works as corporate communications manager with the Irving Group Moncton in Dieppe, New Brunswick. Previously, Kathy worked as a reporter with the CTV television network in Fredericton and as a communications officer for the New Brunswick government. Kathy lives in Moncton with her husband Mark Homer and their son Justin, age four.

Trudie E. Robertson, BA/83, and her husband John L. Robertson, welcomed their daughter, Katelyn Marguerite Rebeca Robertson, on January 11, 1996. The family lives in Pitt Meadows, British Columbia.

'85

Steve Adamson, BA/85, is pleased to announce he has completed the certified general accountant program of study. Steve currently works in the finance branch of the department of national defence in Ottawa where he resides.

Jim Bissett, MA/85, received a joint 1999 Canadian foreign service award for his role in designing and launching a new immigrant investor program for the federal ministry of citizenship and immigration. Jim resides in Nepean, Ontario.

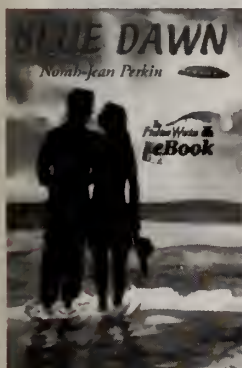
Travis L. Gee, BA/85, BAHons/88, MA/93, PhD/98, and his wife Chantelle McCann, BA/87, have moved to Australia where Travis has accepted a position as a lecturer in psychology at the University of New England. The couple was married in 1991 and have two boys, Trevor and Derek. They live in Armidale, Australia.

Eric West, BJ/85, resides in Toronto where he is a financial consultant with CIBC World Markets. He is also actively involved with The Centre for Peace in the Balkans.

'86

Dave Benjamin, BAHons/86, was approved for a PhD in history (international

Photo by Glamour Shots



relations) at Cambridge University in June, 1997. From 1998 to 1999, Dave was a lecturer in European history and politics and government at Marryshow Community College in Grenada and in August, 1999, became an assistant professor of political science at St. George's University, Grenada. **Nigel Johnson, BEng/86**, and **Leslie Fulton, BJ/95**, have moved to Palo Alto, California, where Nigel is a vice-president of Entrust Technologies. Leslie is continuing her freelance writing career, specializing in high-technology and international trade issues.

John MacDonald BA/86, was recently selected by the Royal Canadian Mounted Police for overseas duty with the United Nations in Bosnia-Herzegovina. John is conducting peace keeping duties as a human rights investigator in the Republic of Srpska on behalf of the International Police Task Force until January, 2000.

Donald Pittis, BJ/86, and **Susan J. Henders, BJ/86**, published the book *Macao: Mysterious Decay and Romance*, in 1997. The couple lives in Toronto.

'87

Neil Herie, BA/87, and his wife Arlene are pleased to announce the birth of their daughter Madeleine on November 12, 1998. The family lives in Toronto.

'88

Nicole Foss, BScHons/88, recently published a book titled *Nuclear Safety and International Governance: Russia and Eastern Europe*. Nicole wrote the book while working as a research fellow at Oxford Institute for Energy Studies. Nicole lives in Kenilworth, Warwickshire, in the United Kingdom.

Gerald K. Gagnier, BScHons/88, is a senior mine engineer on a three-year contract with Compania Minera Lomas Bayas in the Atacama Desert in northern Chile. Gerald and his wife Astrid have two daughters, Dantae, three and a half, and Helena, born October, 1998. They live in Antofagasta, Chile.

Gabriella Szasz, BEng/88, and her husband, Andrew Getzfeld, recently moved to a beautiful Greenwich Village apartment in New York City, where Gabriella is a program manager for Sapient Corporation.

'89

Karen Boissonneault, BAHons/89, and **Paul Gauthier, BA/89**, and their daughter Marielle, four, extend their warmest



We're pleased to present
a listing of recent books written
by graduates of Carleton University.

x Libris

Crybaby!

Author: Janice Williamson, BA/75

Publisher: NeWest Press
(Edmonton), 1998

Price: \$17.95

What You Need to Know About Hospitals

Author: Diane Barnett (Bain), BA/65

Publisher: The Crossing Press, Inc.
(Freedom, California), 1998

Price: \$17.95, (U.S.A. \$11.95)

Winners and Losers: The Business Strategy of Football

Author: Tim Kuypers, MA/90 and
Stefan Szymanski

Publisher: Viking (London), 1998
Price: \$45.00

Nuclear Safety and International Governance: Russia & Eastern Europe

Author: Nicole Foss, BScHons/88

Publisher: Oxford Institute for
Energy Studies (Oxford), 1999

Price: £50

The Mountain is Moving: Japanese Women's Lives

Author: Patricia Morley, MA/67

Publisher: University of British

Columbia Press, 1998

Price: \$39.95

Arthritis: What You Need to Know

Author: Sarah J. Henry, MJ/96

Publisher: Johns Hopkins,
Otteneimer Publishers, Inc.
(Baltimore) 1999

Price: \$9.95

The Selected Letters of Margaret Laurence and Adele Wiseman

Author: Ruth Panofsky, BAHons/80
with John Lennox

Publisher: University of Toronto Press
(Toronto) 1997

Price: \$60.00

Body and Soul: Unleashing the Power of Your Team

Author: Bob Gernon, BA/71

Publisher: Detselig Enterprises Ltd. (Calgary) 1999

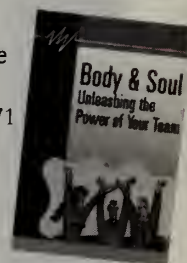
Price: \$19.95

Souwesto Words

Author: Jan Figurski, BA/75 [et al]

Publisher: Ergo Publications (London, Ontario), 1999

Price: \$18.00



thanks to Marielle's grandpa, **Larry Boissonneault**, who works in Carleton University's science and technology centre, and grandma (Georgene) for driving 2,000 kilometres recently to visit them in their new home in Kenora, Ontario.

Nineties

'90

Heather Gauthier (Kerr), BAHons/90, and her husband are proud to welcome two new arrivals to their home. Jennifer, 16, joined the family in August, 1998, and their daughter, Victoria Anne, was born in December of 1998. The family lives in Nepean, Ontario.

Tim Kuypers, MA/90, recently published a book, *Winners and Losers: The Business*

Strategy of Football. The book dissects the performance of English soccer clubs on the pitch and in the boardroom explaining why some succeed and others do not. Tim lives in Huyton, Liverpool, in the United Kingdom.

Mike Pentland, BEng/90, and his wife, Jacqui Synard, are pleased to announce the arrival of their son, Jonathan Jerome Pentland, on February 17, 1999. Mike is a management consultant with Deloitte and Touche and Jacqui is a marketing manager with Stratos Mobile Networks. The family lives in Ottawa.

Luc St-Aubin, BA/90, and his wife, Carole Tremblay, are proud to announce the arrival of Emilie St-Aubin on November 28, 1998. The family resides in Kapuskasing, Ontario, where Luc works as a field services supervisor for Canadian Space Services of Ottawa. Luc hopes to

start his own investment advising firm in the near future so he can spend more time at home with his family.

'91

Lois Tuffin, BJ/91, works as an education reporter for *Peterborough This Week*. In 1997, Lois won the Canadian National Newspaper Award for best editorial at a community newspaper with a circulation over 10,000. Lois lives in Peterborough, Ontario.

'92

Kelly Dexter, BJ/92, and her husband David Massine are pleased to announce the arrival of their second child, Quinn Dexter Massine, on April 9, 1999. Quinn joins his brother Sydney and the family in Kanata, Ontario.

Kevin Charles Marshall, BCom/92, married Natalie Lajeunesse in August, 1997. Their first child, Noah Charles Marshall, was born January 5, 1999. The family recently moved into a new home in Gloucester, Ontario.

Bintang V.C. Sitorus-Sitanggang, BA/92, works as an accident and health development executive for the AIA Indonesia Life Insurance Co. Ltd. in Jakarta, Indonesia. Bintang married Sahat Sitorus, a diplomat with the Indonesian department of foreign affairs, on July 19, 1997. Their first child, Abraham Dian Nikita Sitorus, arrived on April 27, 1998.



Ron Stansfield, MA/92, lives in Vienna, Austria, where he is a senior policy advisor with the International Atomic Energy Agency specializing in nuclear non-proliferation and arms control verification issues.

'93

Natalie Clancy, BJ/93, has transferred from CBC television in Calgary to the CBC in St. John's where she is an investigative reporter for the station's supper-hour show, *Here and Now*. Natalie was recently married to Trevor Adams.

Rian Maelzer, MJ/93, is based in Kuala Lumpur, Malaysia, where he is a correspondent for CNBC Asia and CBC television and radio. He films his own stories as a freelance video journalist.

'94

Marcin Kolbuszewski, PhD/94, is an

Quebec honours Montreal architect

David Azrieli, MARCH/98, was awarded the Order of Quebec on June 8, 1999, for his exceptional contributions to the social, economic and cultural life of the province.

Azrieli, a prominent Montreal businessman, graduated at the age of 75 from Carleton's school of architecture. He was one of the first two graduates of the master's degree program.

Each year, nominations for the prestigious award are submitted to the board of the order, which in turn reviews and selects a list of candidates which is recommended to the premier of Quebec. There were 37 people invested from this year's 211 nominations.



David Azrieli receives the Order of Quebec from premier Lucien Bouchard at a ceremony held in June, 1999.

Photo by Daniel Lessard

information architect with SGML Consulting Company and his wife, Beata Wiatrowska, is a senior consultant at the Norwegian Radium Hospital. The couple lives in Oslo, Norway.

Kim Schulz (Edger), BJ/94, and **Kirk Schulz, BA/93**, have recently relocated to Kelowna, British Columbia, where Kim is working as a communications consultant. They are expecting their first child in September.

'95

Stephen Fisher, BA/95, lives in Peterborough, Ontario, where he recently accepted a position as a grade six teacher at Otonabee Valley Public School.

Roger Gervais, BA/95, and **Christine Prins, BCom/95**, are pleased to announce the arrival of their first child, Madeleine Leigh Prins-Gervais, on March 27, 1999. Roger holds a supervisory position at Daly Support Services Corp. and Christine is a chartered accountant with Robertson Hill Parker Prins Chartered Accountants in Ottawa. The family lives in Greely, Ontario.

Karen Roach (Brodie), BA/95, graduated with honours in the theatre arts program at Algonquin College where she is now teaching. Karen also works at Environment Canada on the aboriginal consultation process for the protection of endangered species. She is currently complet-

ing a specialization in arts administration at the University of Ottawa and runs a non-profit theatre company Muse Productions. Karen lives in Nepean, Ontario.

'96

Sara J. Henry, MJ/96, has published two books this year, *Arthritis: What You Need to Know* and *The Little Blue Book of Fitness and Health: 393 Commonsense Tips to Help You Achieve Optimum Physical, Mental and Spiritual Health*. Sara lives in Tennessee.

Boris Moreno, MA/96, is finishing his PhD at the University of Barcelona in Spain. The theme of his project is the Cuban citrus industry. Boris is a professor of economics at the University of Nueva Gerona at Isla de la Juventa, Cuba.

Tess Van Straaten BAHons/96, is the late night news anchor and six o'clock weather person for MCTV (CTV) in Sault Ste. Marie, Ontario, where she resides.

'97

Piper-Lee Bradford, BA/97, has moved to Taequ, Korea, where she is teaching English on a one-year contract.

Onie Cleary, BAHons/97, is teaching English in Japan and is living in the city of Sanda in the Hyogo Prefecture, near Kobe.

Marco Deyasi, BAHons/97, recently completed his master's degree in visual arts at the University of Western Ontario. In



Photo by Charles Vallée

Carl Breau

You can take the boy out of the small town, but you can't take the small town out of the boy.

It's an apt description for Carl Breau, BEng/88, who left his hometown of Amqui, a small rural town in Quebec, to attend Carleton University. Not only did he earn an engineering degree, he also became fluent in English, completed graduate school and traveled to Europe to embark upon a successful academic career.

But the 33-year-old has since returned to his roots where he founded a prosperous business that has earned him this year's prestigious Young Engineer Achievement Award from the Canadian Council of Professional Engineers.

Small town success story

Carl Breau receives Canadian Young Engineer Achievement Award

By Nick Greenfield

Breau founded Mecker Technologies Inc., a firm which develops technologically advanced wood products, in his hometown. Despite setting up shop in a non-traditional market like Amqui, business is flourishing. Since Mecker's incorporation in 1994, revenues have tripled every year.

But Breau's ambition and ingenuity have been evident since the day he left Amqui for Ottawa just over 15 years ago.

"I was always a small town boy and going to Carleton was sort of an extension of that," says the married father of three. "I learned my English there and it prepared me for the challenges I would have later on. I'm very proud of my time at Carleton. I made a lot of good friends there. Sometimes I wish I could make it back more, but the time goes by so quickly."

After graduating from Carleton in 1988, Breau went on to earn his master's degree in mechanical engineering at L'École Polytechnique in 1990. He served as director of research and development at

Profilem Inc. in Quebec. He then jumped continents to work as a research assistant at the Institut Polytechnique in Sévenans, France, and then as a guest scientist at the renowned Max Planck Institute für Metallforschung in Stuttgart, Germany.

In 1995 he returned home to start Mecker Technologies. "I sort of feel like I've been around the block and back already," he laughs. "We have always wanted to go back home. I wanted my boys to have that same experience. For having been all these places, I find that sometimes the best places to visit aren't always the best places to live and grow up."

And while Breau's small town roots and grounded attitude might outwardly belie his business ambitions, it is these same traits that have helped earn him his success.



Nick Greenfield, BJ/99, is a freelance writer based in Russell, Ontario.

September Marco will begin the PhD program in art history at Duke University in North Carolina.

'98

Sean A. Cunliffe, BCom/98, married **Vicki Morin, BCom/98**, in August, 1998. Vicki works at the Treasury Board Secretariat as a human resources officer and Sean works at Deloitte & Touche as a practising accountant. They live in Kanata, Ontario.

Pierre Rochon, CPSS/98, has recently accepted a position as a manager for the Canada Map Office in the federal Ministry of Natural Resources. Pierre lives in Gloucester, Ontario.

'99

Kathryn Marie Furlong, BEng/99, is one of 25 Canadian university graduates to be awarded the 1999 Celanese Canada International Fellowship. Kathryn will be attending the University of Oxford in the MSc program specializing in environmental change and management.

Congratulations on the arrival of the following Carleton University

Future Alumni

Rae Xiao Bao (Williamson), August 3, 1997

Helena Gagnier, October, 1998

Victoria Anne Gauthier, December 4, 1998

Madeleine Herie, November 12, 1998

Noah Charles Marshall, January 5, 1999

Quinn Dexter Massine, April 9, 1999

Alexandra Elena McLaughlin, December 14, 1997

Jonathan Jerome Pentland, February 17, 1999

Madeleine Leigh Prins-Gervais, March 27, 1999

Charlotte Grace Nelson Rammelt, May 7, 1999

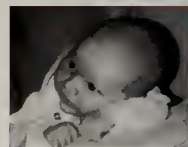
Devin Refling, January 3, 1995

Katelyn Marguerite Rebeca Robertson, January 11, 1996

Abraham Dian Nikita Sitorus, April 27, 1998

Emilie St-Aubin, November 28, 1998

Jesse John Leo Tamming (Coletto), March 19, 1999



Victoria Anne Gauthier



Madeleine Herie



Alexandra McLaughlin



Emilie St-Aubin



Jesse Tamming

In honour of a half-century of caring

Janet Romanson Grosskleg King, BA/86, was one of 32 recipients of the Governor-General's Award for Caring Canadians given at a ceremony at Rideau Hall on June 22, 1999. She was cited for more than 50 years of volunteer work.

By Richard Martin

A church volunteer and member of the Legion of Mary, King has spent countless hours visiting and assisting the elderly, the visually impaired and the physically handicapped. She fixes meals for them, cleans their homes, walks their dogs, drives them to appointments and just listens to them. "I don't have to visit," she says. "Sometimes, they just need someone to talk to, so I phone."



Photo by Christian Coulombe

Janet Romanson Grosskleg King with Governor-General Romeo LeBlanc.

A former runaway herself, King also visits and counsels people who are homeless, in jail or who have problems with drug abuse. As a youngster, she fled to Winnipeg where she found work as a housekeeper for five dollars a month.

"I was lonely," she says of that time. "I think that's why I care so much about children who are on the streets. They're looking for something, just like I was."

On the streets, King simply talks to people. "You can't force religion on people," she says. "You just do kindness where you can."

She advises people searching for something better out of life to try "the easy way: do something for someone else."

King has spent a lifetime caring for others—including her own extended family of 15. When her second husband died unexpectedly in 1981, King finally did something for herself.

She came to Carleton to alleviate her grieving. She registered as a special student since she only had a grade 10 equivalent. She majored in religion and minored in Russian. "It was lots of fun," she recalls, "but it was a lot of hard work, and I mean hard work."

Now 84, she's thinking she might come back to Carleton, for a master's degree in German. She'll have lots of time for study if her doctor is right: "He says I'll live to be 200."

Hard work has never frightened King. In two different churches, she stripped and revarnished the pews. In another, she replaced the covers on the kneelers. She and her first husband—a stationary engineer—built and sold six houses in Pembroke, Ontario.

How did she learn to build houses? "You hit your thumb with a hammer and it swells up," she says. "The next day, you hit it again and it turns black. Well, you don't hit your thumb anymore after that."



Richard Martin, BAHons/70, BJ/83, is on sabbatical from Algonquin College in Nepean, Ontario.



CARLETON RAVENS THIRD HALL OF FAME BANQUET

LOCATION: St. Anthony's Soccer Club
523 St. Anthony's Street (Corner of Preston St.)
Saturday, February 12, 2000

Come celebrate with Carleton University's Department of Athletics the Induction and Banquet Ceremonies honouring the newest members of Carleton's Hall of Fame.

- ◆ 2 p.m.--Women's basketball. Carleton vs. York University. (Ravens Nest)
- ◆ 3:30 p.m.--Unveiling of the new Hall of Fame Plaques. (Athletics Main Lobby)
- ◆ 4 p.m.--Men's basketball. Carleton vs. York University. (Ravens Nest)
- ◆ 6:30 p.m.-- Cocktails at St. Anthony's Club
- ◆ 7 p.m.-- Banquet commences.

For further information on the event and ticket prices, please call the Department of Athletics at (613) 520-4480.

CAREER SERVICES



Alumni Career Connections

Job Hunting?

With the millennium approaching, Career Services at Carleton University has made some exciting changes to keep pace with the quickly changing world of work. June 1999 marked Career Services' switch from our paper-based job posting method to an Internet-based employment search and career planning tool:

Compus Worklink: NGR will aid us in enhancing the services we already provide. Computer and Internet services have become increasingly important to job seekers and employers, and Career Services is meeting the challenge.

Contact Career Services for the Compus Worklink password, then visit Compus Worklink: NGR at www.compusworklink.com

Career Counselling:

is available to alumni for up to one year after graduating. Learn to plan wisely and make decisions with regards to academic and career concerns.

Workshops:

Career Counselling, Job Search, Interview Techniques, Resume Writing, One-on-One Drop In Sessions.

Computer Lab/Resource Centre:

Books and on-line resources to assist you with educational and career choices, job search, resume writing and interview preparation.

Hiring?

It's great when Carleton University alumni hire from their alma mater. Please contact Career Services if you have an opportunity for a recent graduate.

On-Campus Recruiting:

Employers can recruit the best of the best by advertising to the graduating class during their final year of studies. The On-Campus Recruiting Program is offered from September to March of every year.

Career Fair and Summer Job Fair:

Gain recognition on campus by attending fairs regularly to announce your hiring needs.

For more information regarding our programs and services, please contact our office.

508 University Centre
Phone: (613) 520-6611
www.carleton.ca/career
career@carleton.ca

Here's how to become a Class Act

Simply complete this form and return it to us so we can share your news and achievements with fellow grads in the Class Acts section in both the print and online editions of *Carleton University Magazine*. Be sure to let us know whenever you move so you don't miss future issues of the magazine. Please return to: Carleton University Alumni Association, 1125 Colonel By Drive, Ottawa, Ontario, K1S 5B6.

NAME _____
title first name surname previous name degree/class

SPOUSE _____
title first name surname previous name degree/university

HOME ADDRESS (please complete if different from the one used for this mailing)

_____ apt/street city
_____ province/country postal code telephone

BUSINESS ADDRESS (please complete or attach business card)

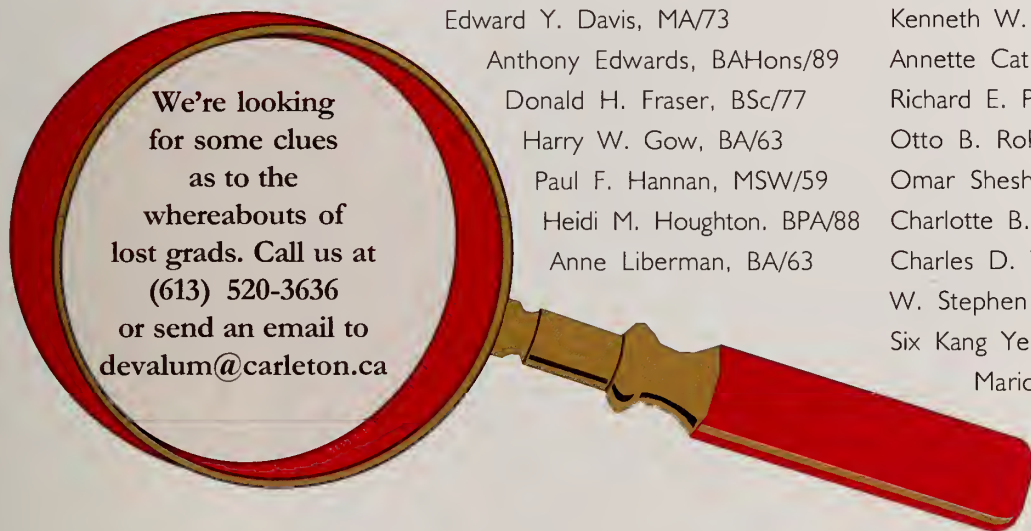
_____ position/title company
_____ office/department street city
_____ province/country postal code telephone fax email

PERSONAL NEWS (include a photo and we'll try to print it too) _____

☐ Please include my child in the Future Alumni column. Name _____ Birth date _____

Fax: (613) 520-3587 Email: devalum@carleton.ca Website: www.magazine.carleton.ca

Lost Grads



We're looking
for some clues
as to the
whereabouts of
lost grads. Call us at
(613) 520-3636
or send an email to
devalum@carleton.ca

Jennifer Louise Beavis, BA/88
Judith A. Bradley, MSW/77
Philip D. Carpenter, BA(SPC)/70
Raymond T. Cole, BSc/49
Edward Y. Davis, MA/73

Anthony Edwards, BAHons/89
Donald H. Fraser, BSc/77
Harry W. Gow, BA/63
Paul F. Hannan, MSW/59
Heidi M. Houghton, BPA/88
Anne Liberman, BA/63

Kathryn Lilienfeld, BA/77
Kimberly A. MacGregor, BA/82
Jean T. McDougall, BJ/54
Reshmi Mitra, BA/82
Kenneth W. Neptune, BA/77
Annette Catharine Palmer, BA/68
Richard E. Prichett, BSc/63
Otto B. Rollheiser, BA(SPC)/70
Omar Sheshah, MEng/95
Charlotte B. Stewart, MA/82
Charles D. Thom, BEng/77
W. Stephen Watson, BAHons/77
Six Kang Yeoh, BEng/82
Mario F. Zuliani, BArch/82

Check out the Lost & Found section on our new alumni Web site

www.carleton.ca/alumni

To get where you're going takes hard work, determination and... **FOCUS**



2000 FOCUS AVAILABLE FALL OF 1999

As a graduate, you could earn a \$1,000 rebate from the purchase or lease of a new Ford or Lincoln Mercury car or light truck! For qualification details, or if you would like to receive a FREE Ford Graduate Information Kit, call 1-800-387-5535, or visit our website at www.ford.ca/grad. For full product information, drop by your local dealer and check out the showroom.



Ford Motor Company of Canada, Limited

A commentary on the challenges and changes that face society as we look ahead to the new millennium.

Remember who's really to blame in Kosovo

by Kitty McKinsey

The news still coming in from Kosovo has a distressing ring of familiarity about it—innocent people, often elderly or children, are being murdered, tortured, beaten or evicted from their homes simply because they are from the “wrong” ethnic group.

Since the NATO troops entered the southern Serbian province of Kosovo with the avowed goal of preserving a multiethnic society—a place where Serbs, Albanians and Roma (Gypsies) can live together—the victims of ethnic atrocities have been Serbs. They have been attacked by the returning ethnic Albanians in revenge for the huge-scale massacres and deportations wreaked on them by Yugoslav president Slobodan Milosevic's forces in the spring and early summer.

Of course it is impossible to defend the ethnic Albanians' actions, no matter how well one might understand the motivations of people who have seen their homes and possessions of a lifetime, their farms, their livestock and often their families destroyed in front of their eyes.

And it is tragic and ironic that the very ideal NATO professed to fight for—a multi-ethnic society—is disappearing as the soldiers look on from the ground.

But let us not forget who is responsible for all the wars and tragedies that have struck the Balkans since 1991—Milosevic personally. The claim that the warring parties in former Yugoslavia fought because of that well-worn mantra, “centuries-old ethnic hatreds” was a convenient excuse for Western (especially European) governments to avoid doing anything constructive in either Croatia or Bosnia, or, for a year, in Kosovo. But the blame for the violent break-up of Yugoslavia lies squarely with Milosevic.

Never a convinced nationalist, Milosevic nevertheless saw that the key to gaining and keeping power—his only true aim—lay in whipping up Serbian nationalism and fomenting wars throughout former Yugoslavia. The fact that he has lost all four



On a trip to Kosovo in 1992, not long after the start of the war in Bosnia-Herzegovina, a prominent Kosovar intellectual told me—quite prophetically—that Milosevic's creed was “genocide politics.”

of the wars he started for the greater glory of the Serbian people apparently is only now starting to sink in with some of his compatriots.

I have covered Kosovo since 1984, and my only surprise at the rise of the UCK, or Kosovo Liberation Army, (which gave Milosevic a lovely pretext for his merciless crackdown on the overwhelmingly ethnic Albanian civilian population of Kosovo) was that it took so long to emerge. For more than a decade, ethnic Albanians were excluded from all government institutions in Serbia, constantly harassed, and as I personally witnessed, frequently brutally beaten. But rather than

take up arms against their Serb oppressors, for most of that time the Kosovars followed the leadership of Ibrahim Rugova and practiced passive resistance.

On a trip to Kosovo in 1992, not long after the start of the war in Bosnia-Herzegovina, a prominent Kosovar intellectual told me—quite prophetically—that Milosevic's creed was “genocide politics” and that “it's possible Milosevic will start a conflict in Kosovo to stay in power.”

That long ago it was clear to the Kosovar Albanians—and to most of the Western journalists covering the region—what dangers Milosevic posed to the world. The tragedy is that for so long it was more convenient for Western leaders

to view Milosevic as the key to the solution in the Balkans rather than what he actually was—the heart of the problem.



Kitty McKinsey is senior correspondent for Radio Free Europe based in Prague. A foreign correspondent for 16 years, she covered the first three wars in former Yugoslavia for Southam News of Canada and covered the Kosovo refugee crisis this spring from Macedonia for RFE. She holds BAHons degrees from Carleton University in Soviet and East European Studies and Russian.

Priceless protection made affordable

We can cover you for less.

If you're like most Canadians, you haven't given enough thought to really protecting what matters to you, so the Carleton University Alumni Association wants you to know about some invaluable protection you can easily afford.

Think about it – insurance is more than just money – it can make all the difference to your family in its time of need by paying off outstanding bills, the mortgage, taxes and taking care of everyday living expenses.

That's why your Carleton University Alumni Association negotiated this affordable Alumni Insurance Plan. It offers you solid value at rates economical enough that you can afford all the coverage you need for your peace of mind.

The Plan is backed by Manulife, one of Canada's most respected life insurers. The Carleton University Alumni Association negotiated a plan that offers you low rates and provides you with a wide range of important features you won't easily find elsewhere.

**Term
Life**

**Major Accident
Protection**

**Income
Protection**

**Child Life
& Accident**

**EHC
& Dental**

Underwritten by:


**Manulife
Financial**

**Call Manulife Financial
toll-free at**

1 888 913-6333

or e-mail AM_Service@manulife.com

Recommended by:



**Carleton
University
Alumni
Association**

Seek the comfort and warmth of our insurance solutions



RD Richard
LIBRARY

WIN

a First-Class Performer!

The Meloche Monnex Insurance Program
recommended by:



Call now for a no-obligation
quote and you could win 1 of 2
Mercedes-Benz C 230 Classic models*

You'll sleep better at night knowing Meloche Monnex is taking care of your insurance needs – the solution recommended by Carleton University Alumni Association. We've been around a long time, providing superior service and fast, efficient claims processing to people like you. Look into our range of insurance solutions – including an international service for the whole family via your free, personalized card.

- Automobile insurance solution ** • Home insurance solution
- Wide Horizons Solution for travel • Micro-enterprise Solution for business

Visit our website: www.melochemonnex.com

1-800-268-8955 • 1-800-361-3821 (Québec only)

* No purchase necessary. Approximate value of \$38,000. This contest ends on December 10th, 1999. In order to win, the selected entrant must correctly answer a mathematical skill-testing question. To find out about the other ways to participate or to get the complete rules, please write to "A First Class Performer!" Contest, Meloche Monnex, 50 Place Crémazie, 12th Floor, Montréal, H2P 1B6.

** Due to provincial legislation, our auto insurance program is not offered in British Columbia, Manitoba and Saskatchewan.



Meloche Monnex
Where insurance is a science
...and service, an art

A Canada Trust Company